User Manual

（For Windows & Mac OS）

Indoor HD Wireless IP Camera

Model: 2864-222, 2864-226
Color：Black/White

V1.6

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1 Overview

Indoor HD Wireless IP Camera with P2P is an integrated wireless IP Camera with a color CMOS sensor enabling viewing in High Definition resolution. It combines a high quality digital video camera, with a powerful web server, to bring clear video to your desktop and mobile devices from anywhere on your local network or over the Internet.

Thanks to the P2P easy access technology, you don't need to do complicated Port Forwarding and DDNS settings, you just need to scan the QR code on the bottom of the camera to connect it on smart phone, or input the UID on CMS software to do remote access.

With flexible 300-degree pan and 120-degree tilt(except for FC1403P), the IP Camera gives users more comprehensive control over a monitored site. The camera supports H.264 video compression technology, dramatically reducing file size and saving network bandwidth.

The camera is based on the TCP/IP standard. There is a WEB server inside which could support Internet Explore. Therefore the management and maintenance of your device is simplified by using the network to access the website of your camera.

The camera is designed for indoor surveillance applications such as home, retail store and office. Controlling the camera and managing images is simplified by using the provided web interface across the network utilizing wired or wireless connectivity.

The IPCAM supports Smart Phone APP for Android and iPhone users, please search and install **IPCam Viewer** on Google Play for Android devices, search and install **IPCam_Viewer** on APP Store for iOS devices, then you can view your camera anywhere, anytime on your smart mobile devices.

1.1 Key Features

- Standard H.264 video compression algorithm to satisfy the transmission of high definition video in narrow bandwidth network
- P2P feature for easy access
- Megapixel HD video
- Pan 300 degree, tilt 120 degree
- Supports IE/Firefox/Google/Safari browser
- Supports WEP,WPA-PSK and WPA2-PSK Encryption
- Wireless connection is compliant with IEEE 802.11b/g/n Wi-Fi, up to 150Mbps
- IR night vision (Range: 8m)
- Supports image snapshot
- Supports dual-stream
- Supports SD Card storage up to 32GB(except for FC1403P)
- Supports IR-Cut auto switch

- Embedded free DDNS(dynamic domain name service) Service
- Support for Third Party Domain Name Service
- Supports two-way audio using select browsers and apps
- Multi-level users management with password protection
- Motion detection alert via email or upload image to FTP server
- Free Android and iPhone APP for viewing live video
- Supports recording schedule

1.2 Read Before Use

Please first verify that all contents received are complete according to the Package Contents listed below. Before the IP Camera is installed, please carefully read and follow the instructions in the Quick Installation Guide to avoid damage due to faulty assembly and installation. This also ensures the product is used properly as intended.

1.3 Package Contents

● IP Camera × 1	● Mounting bracket × 1
● Wi-Fi Antenna × 1	
● Ethernet Cable × 1	
● DC Power Adapter × 1	

1.4 Physical Description

Front Panel

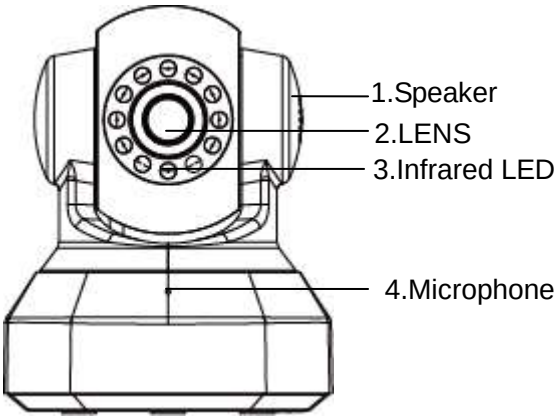


Figure 1.1

1.Speaker: Built-in speaker
2.LENS: Fixed focus lens.
3.Infrared LED: Infrared LEDs for night vision
4.Microphone: Built-in microphone
5.Wi-Fi Antenna: Wireless Antenna

Rear Panel(FC2401P/FC2503PZ)

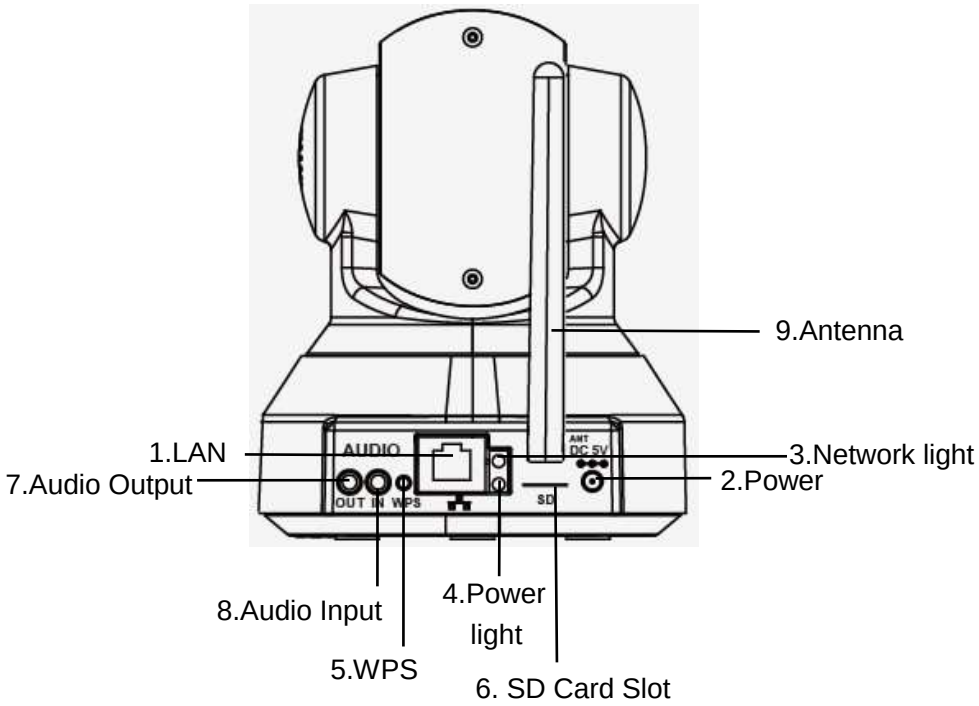


Figure 1.2

1.LAN: 10/100 Mbps RJ-45 port for wired connection
2.Power: DC 5V/2A Power supply
3.Network Light: The LED will blink slowly in wired connection, blink two times faster in wireless connection, blink four times faster when WPS
4.Power Light: If the power supply works fine, the light will turn on
5.WPS: Push the WPS button on the camera and wireless router in 1 minutes, the camera will connect the wireless router automatically, in WPS process, the Network Light will blink very fast
6. SD card Slot: Supports up to 32GB SD card for storing the video
7.Audio Output: This jack is used to plug an external speaker
8.Audio Input: This jack is used to plug an external microphone
9.Antenna: Used to connect external wireless antenna

Bottom View

1.Mounting Port 2.Reset Button

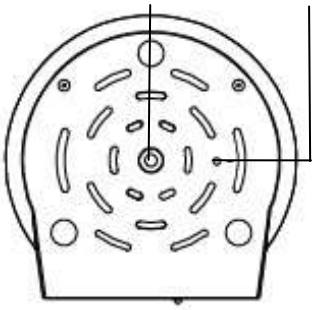


Figure 1.3

1. Mounting Port: Port for mounting bracket
2. Reset Button: Push and hold for more than 5 seconds to set the camera to factory default.

2 Access the IP Camera

This chapter explains how to access the camera through browser and RTSP player.

2.1 Access the Camera in LAN

This camera supports HTTP and HTTPS protocols, you can access the camera by two ways.
(1) http:// LAN IP + HTTP Port NO.

The default HTTP port no is 88. Double click the IP Camera Tool icon to run, and it should find the camera's IP address automatically after you plug in the network cable.

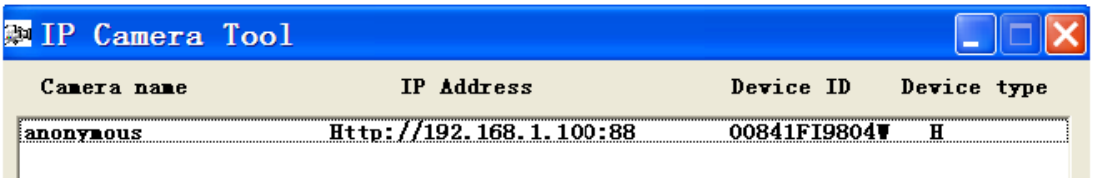


Figure 2.1

Double click the IP address of the camera; your default browser will open to the camera login page.

(2) https:// LAN IP + HTTPS Port NO.

The default Https port no is 443. You can use the url to access the camera: https:// LAN IP + HTTPS port.

Go to **Settings - Network - Port** panel , you can see and change the http and https port no.

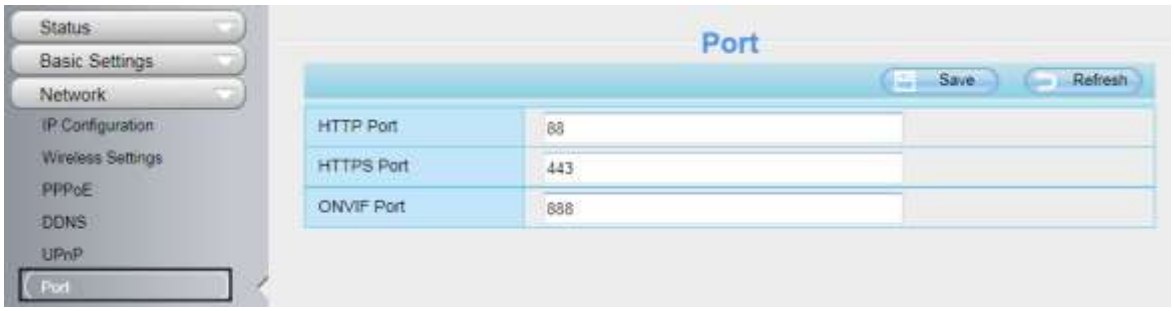
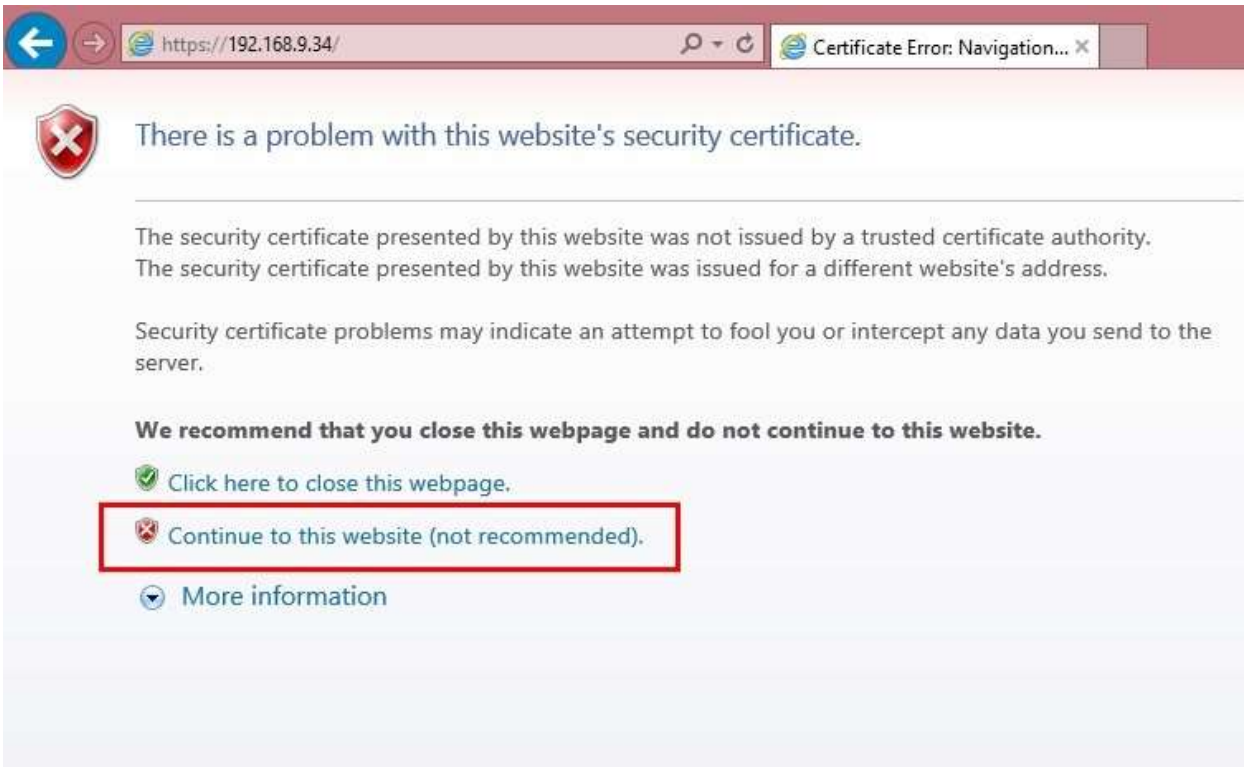


Figure 2.2

HTTPS(Hypertext Transfer Protocol over Secure Socket Layer) is a safe way to access your camera, the data transferred on the Internet will be encrypted. Since we can not apply license for every LAN or DDNS URL, the webpage may pop up a warning like the following picture, you just need to click 'Continue to this website (not recommended). '


https://192.168.9.34/
Certificate Error: Navigation...
There is a problem with this website's security certificate.
The security certificate presented by this website was not issued by a trusted certificate authority.
The security certificate presented by this website was issued for a different website's address.
Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.
We recommend that you close this webpage and do not continue to this website.
Click here to close this webpage.
Continue to this website (not recommended).
More information

Open **Internet Explorer** if it is not already opened. Click on **Tools**, then click Internet Options.
Next, click the **Security** tab, then click the Trusted sites button.

Figure 2.3

For **Firefox**, you can add the trusted as the following way:

Tools ---- Options ---- Advanced --- View Certificates --- Servers

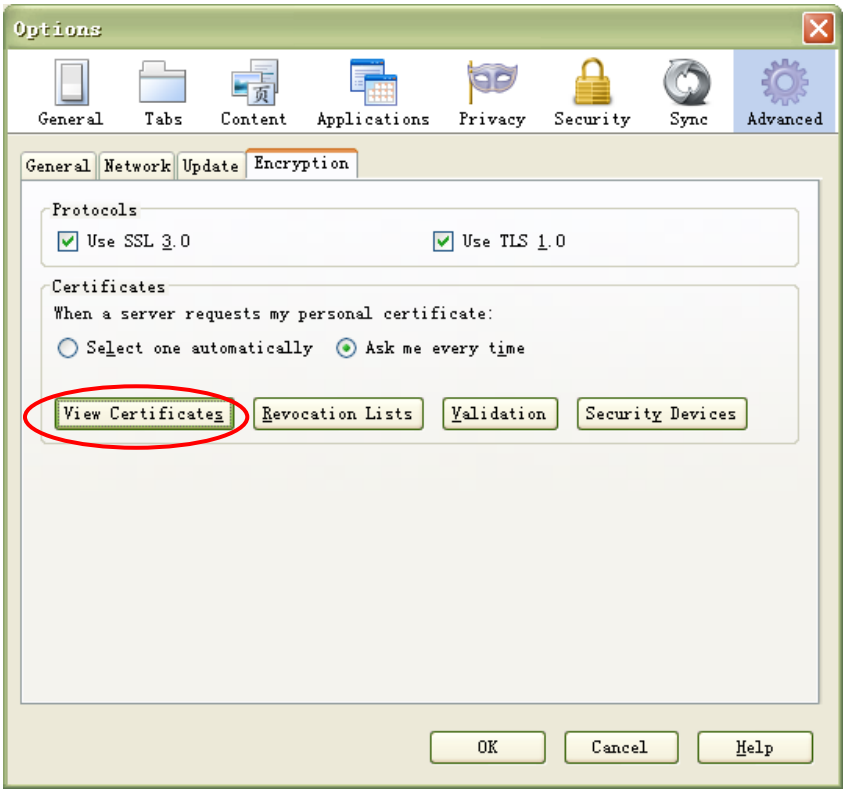


Figure 2.4

Click **View Certificates**, and go to **Servers** option.

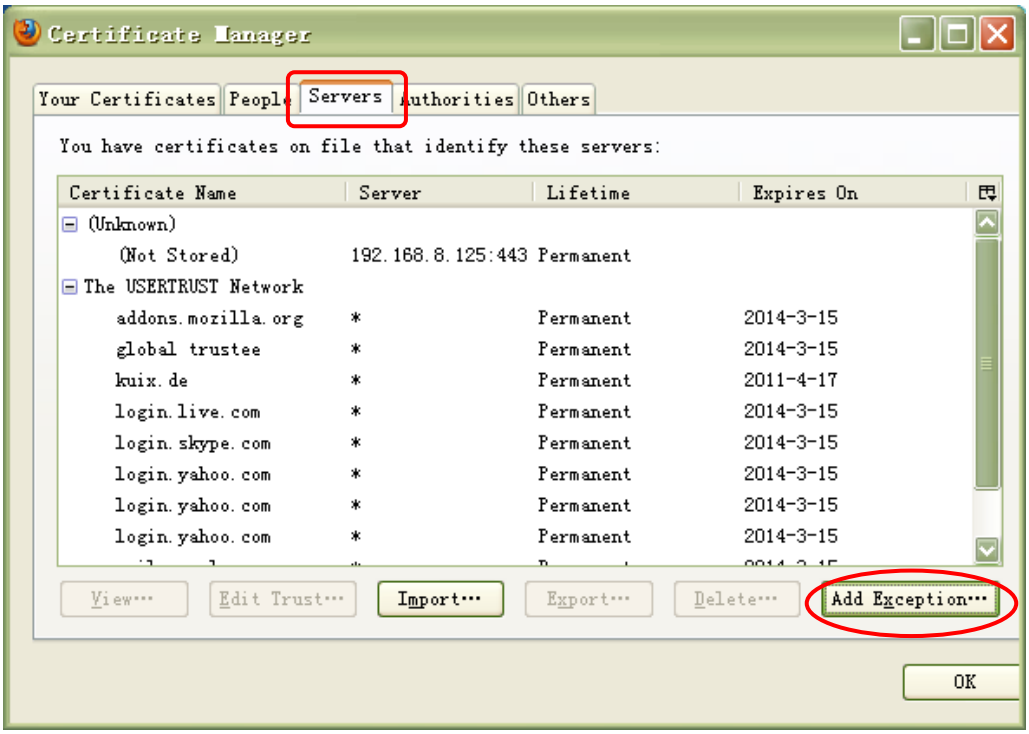


Figure 2.5

Go to **Add Exception** panel.

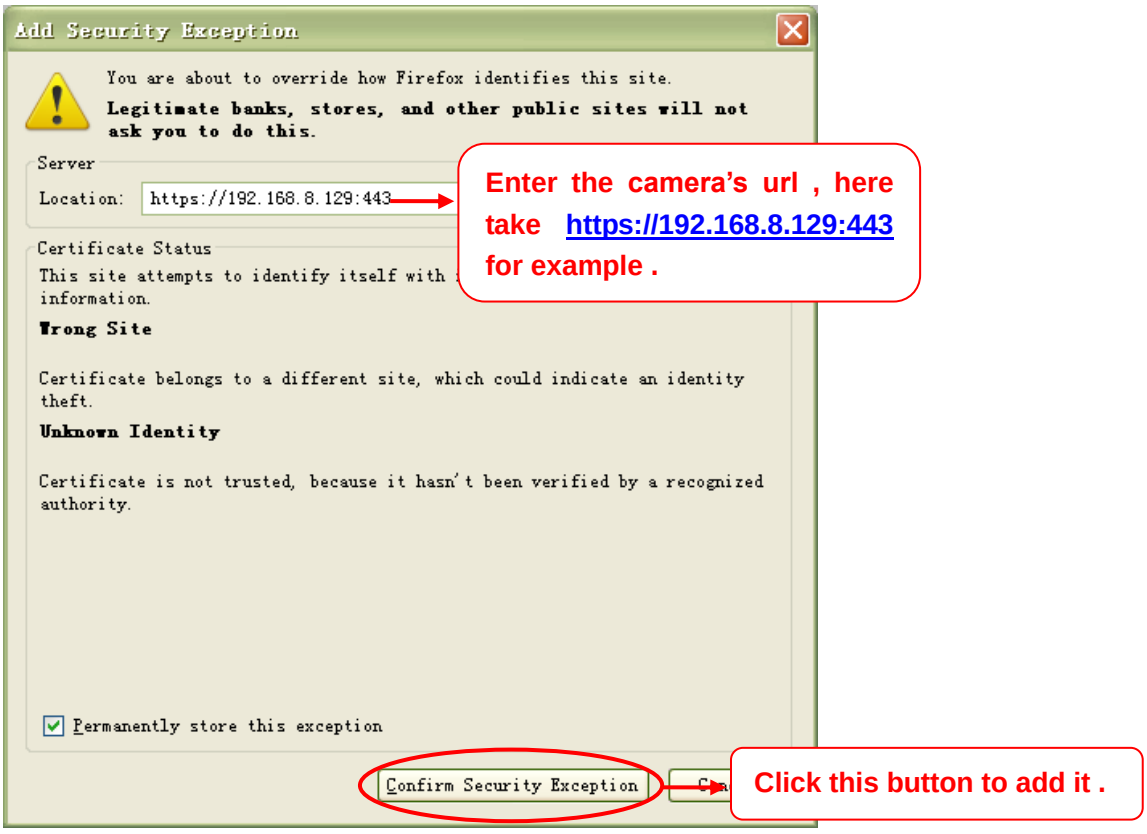

Add Security Exception
You are about to override how Firefox identifies this site.
Legitimate banks, stores, and other public sites will not ask you to do this.
Server
Location: https://192.168.8.129:443
Enter the camera's url , here take https://192.168.8.129:443 for example .
Certificate Status
This site attempts to identify itself with information.
Wrong Site
Certificate belongs to a different site, which could indicate an identity theft.
Unknown Identity
Certificate is not trusted, because it hasn't been verified by a recognized authority.
Permanently store this exception
Confirm Security Exception
Click this button to add it .

Figure 2.6

2.2 Access the Camera in WAN

2.2.1 Static IP Addresses

Users who have static IP addresses do not need to set DDNS service settings for remote access. When you have finished connecting the camera using the LAN IP address and port forwarding, you can access the camera directly from the Internet using the WAN IP address and port number.

How to Obtain the WAN IP address from a public website

To obtain your WAN IP address, enter the following URL in your browser: http://www.whatismyip.com.The webpage at this address will show you the current WAN IP.

Figure 2.3

Access your IP Camera from the Internet

You can access the IP Camera from the Internet (remote access). Enter the WAN IP address and port number in your standard browser. For example, you would enter http:// 183.37.28.254:85

NOTES:
Make sure port forwarding is successful. You can do port forwarding two ways.

1) Login to your router to enable the “UPNP” function. You can then login to the camera as administrator, choose Network, and then choose UPnP to enable UPnP. Make sure that the status of UPnP reads “UPnP Successful” on the Device Status page.

2) Do port (HTTP port and Media port) forwarding manually.
If your router has a Virtual Server, it can do port forwarding. Add the camera’s LAN IP and port which you had set earlier to your router’s port forwarding settings.

If you plug the camera into a router, it will have a dynamic IP address and you need to set DDNS service settings to view it remotely.

2.2.2 Dynamic IP Addresses

DDNS is a service that allows your IP Camera, especially when assigned with a dynamic IP address, to have a fixed host and domain name. This means that even though your WAN IP address is constantly changing, you will have a fixed hostname you can use to access your cameras at all times. You can access the camera directly from the Internet using the hostname and port number.
What is the HTTP Port no.?
Default HTTP Port is 88
All cameras have the default HTTP port of 88. For example, if the LAN IP link of the camera is http://192.168.1.110:88, this means that the camera’s HTTP port is 88. You can change port 88 to another port if you’d like such as 2000 or 8090, which will not be conflict with other existing ports like 25, 21,10000.Here you can set the port no. between 1 and 65535.
Change the default http no.88 to another one.
How to assign a different HTTP Port No. and fixed the LAN IP of the camera by the IP Camera Tool?

Step 1: Open the IP Camera Tool, select the camera you would like to change the port of, right click on the IP address, and click on ”Network Configuration”, this brings up the network configuration box.

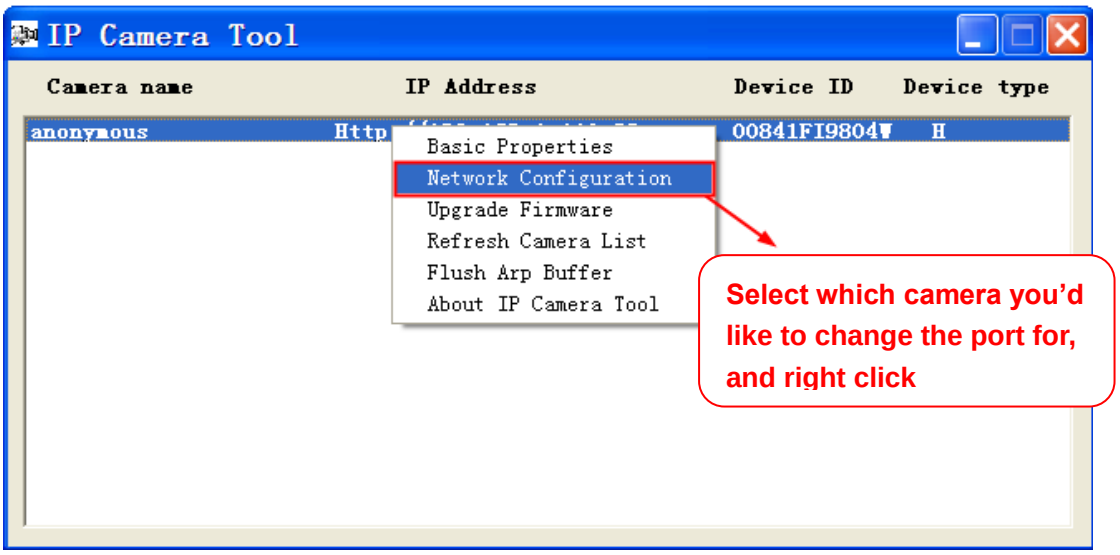


Figure 2.4

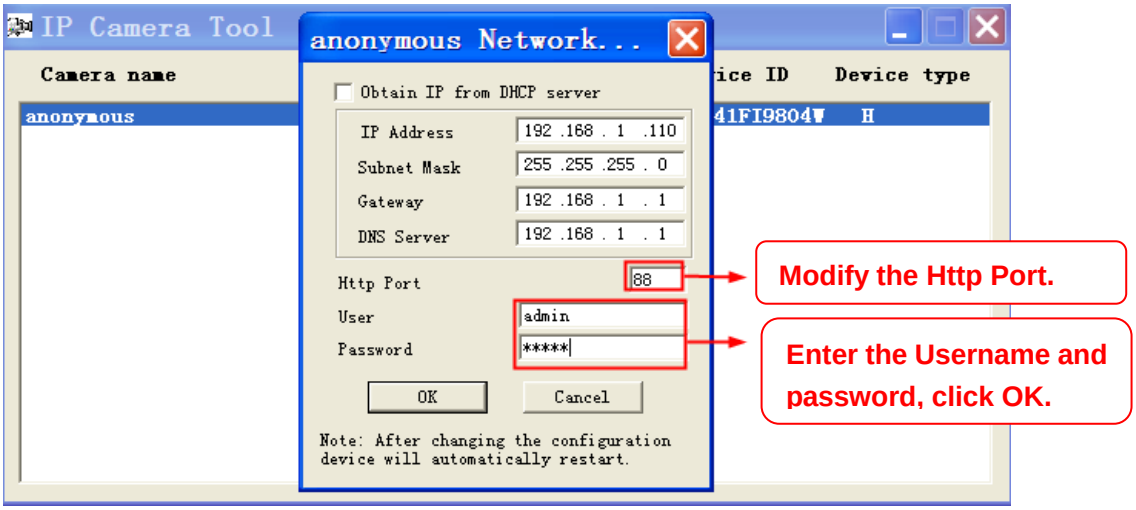

IP Camera Tool
Camera name
anonymous
anonymous Network...
Obtain IP from DHCP server
IP Address 192 .168 . 1 .110
Subnet Mask 255 .255 .255 . 0
Gateway 192 .168 . 1 . 1
DNS Server 192 .168 . 1 . 1
Http Port 88
User admin
Password *****
OK
Cancel
Note: After changing the configuration device will automatically restart.
Modify the Http Port.
Enter the Username and password, click OK.

Figure 2.5

Step 2: Enter the username and password of the Administrator (default username is admin with a blank password), and click "OK" to apply changes.

Step 3: Wait around 10 seconds, you'll see that the camera's LAN IP address has changed. In our example it was changed to 2000, so we see http://192.168.1.110:2000 in IP Camera Tool. Also, the LAN IP address is now fixed at a static IP address of http://192.168.1.110:2000. This IP address will not change even if the camera is powered off and back on, the camera will remain on this LAN IP address. This is very important that a static LAN IP address is set, or you may have problems later with remote access and seeing the camera remotely if the camera loses power and reconnects on a different LAN IP address. Make sure you set a static LAN IP address!

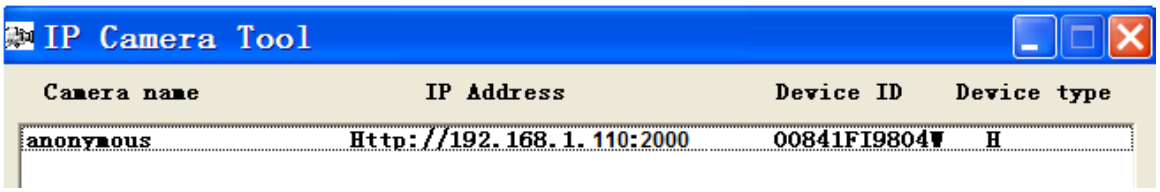


Figure 2.6

What is Port forwarding?

If you have never done port forwarding before, you can open and view the following link to understand the basic concept. Port forwarding allows for outside connections to access a specific device on your network from anywhere in the world. Every router automatically blocks any incoming connections for safety purposes. Using port forwarding, you are telling your router to allow a connection through a certain port (you can think of it as a gateway) into your router. You set this port to a specific device, in our case an IP Camera, so it can be accessed from anywhere in the world.

Click this link to learn more about port forwarding: http://portforward.com/help/portforwarding.htm
How do we configure Port Forwarding?
For this section, we will be using an example:

Let's say the camera's LAN IP address is **http://192.168.8.100:2000**

Step 1: Login to the router, and go to your router's port forwarding or port triggering menu. Sometimes this is also under the name of Virtual Server or NAT.

Using the Linksys brand router as an example, we would log into the router, and go to the Applications & Gaming menu. We would then click on the "Single Port Forwarding" sub-menu.

Step 2: Create a new column using the LAN IP address & HTTP Port of the camera within the router as shown below, then push OK or Submit to save your settings:

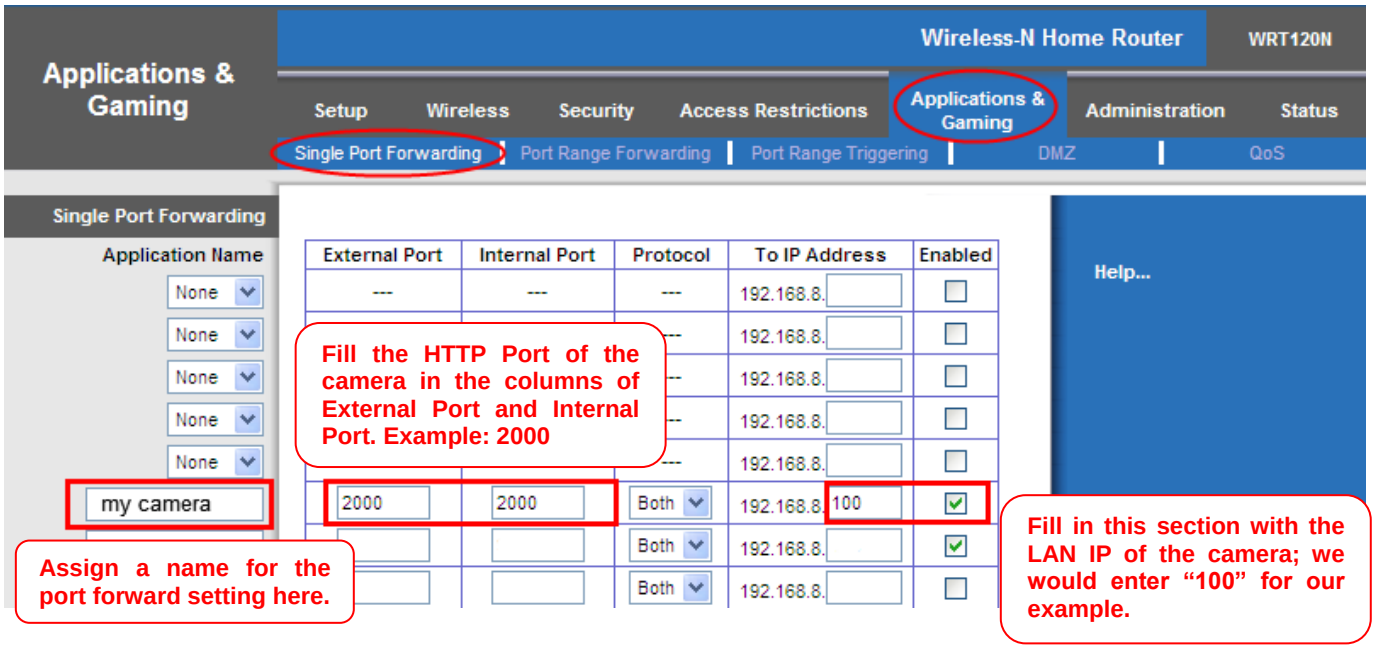


Figure 2.7

First method :

Use the embedded DDNS to access the camera via the Internet

Each camera has an embedded unique DDNS domain name, the format of this domain name is xxxxxx.myipcamera.org. On the bottom of the camera, you can see the domain name sticker with this information on it.

For example, we can use test09.myipcamera.org. In the camera, click Settings at the top, click "Network" on the left, then click "DDNS" to get to the DDNS settings page. Here you can see the unique domain name of your camera.

Figure 2.8

Now you can use “http://Domain name + HTTP Port” to access the camera via the Internet.
Take hostname a33471.myipcamera.org and HTTP Port of 2000 for example, the URL link to access the camera via the Internet would be http:// a33471.myipcamera.org:2000.

Second method :
Use the Third party DDNS to access the camera via the Internet
Step 1 Please go to the third party DDNS website(such as **www.no-ip.com**) to create a free hostname.
Step 2 DO DDNS Service Settings within the Camera
Please set DDNS Settings within the camera by hostname, a user name and password you’ve got from **www.no-ip.com**
Take hostname ycxgwp.no-ip.info, user name ipcamera, password ipcamera2012 for example.

Firstly, goes to option of DDNS Settings on the administrator panel.
Secondly, select No-Ip as a server.

Thirdly, fill ip camera as DDNS user, fill password ipcamera2012 as DDNS password, fill ycxgwp.no-ip.info as DDNS domain and server URL, Then click save to make effect. The camera will restart and to take the DDNS settings effective.

Fourthly, after the restart, login the camera, and go to option of Device Status on the administrator panel, and check if the DDNS status is successful.
If failed, please double check if you have input the correct hostname, user name, and password, and try to redo the settings.

NOTE:
If you have set Third Party DDNS successfully ,the Domain Name will be invalid. The Third Party DDNS and the Domain Name cannot work at the same time, the last time you configured will take effect.

2.3 Using the VLC player

This camera supports RTSP streaming, here you can view the camera using VLC player.

RTSP URL rtsp:// [user name][:password]@IP:HTTP port number/videosream

The part in the square brackets may be omitted.
user name & password: The user name and password to access the camera. This part can be omitted.
IP: WAN or LAN IP address.
Videostream: Here support three mode: videoMain, videoSub and audio. When the network speed is bad, here you had better select videoSub. If you select audio, you can only hear the sound but cannot see the video.
For example:
IP: 192.168.1.11
HTTP Port number: 88
User name: admin
Password: 123

Here I can enter one of the following URLs in the VLC.

1) rtsp://admin:123@192.168.1.11:88/videoMain
2) rtsp:// @192.168.1.11:88/videoMain
3) rtsp://:123@192.168.1.11:88/videoMain
4) rtsp://admin@192.168.1.11:88/videoMain

Open the VLC, and go to Media→Open Network Stream option, then enter the URL into VLC.

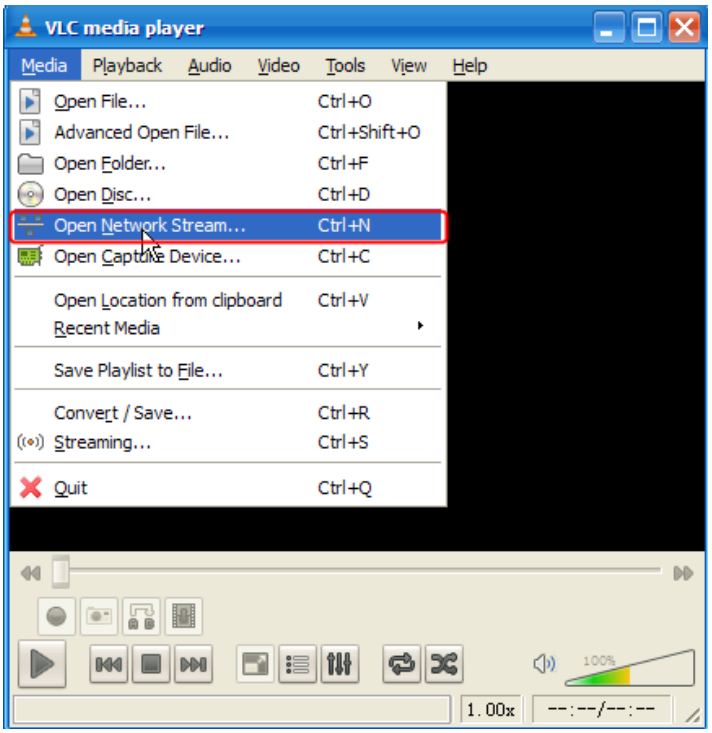


Figure 2.9

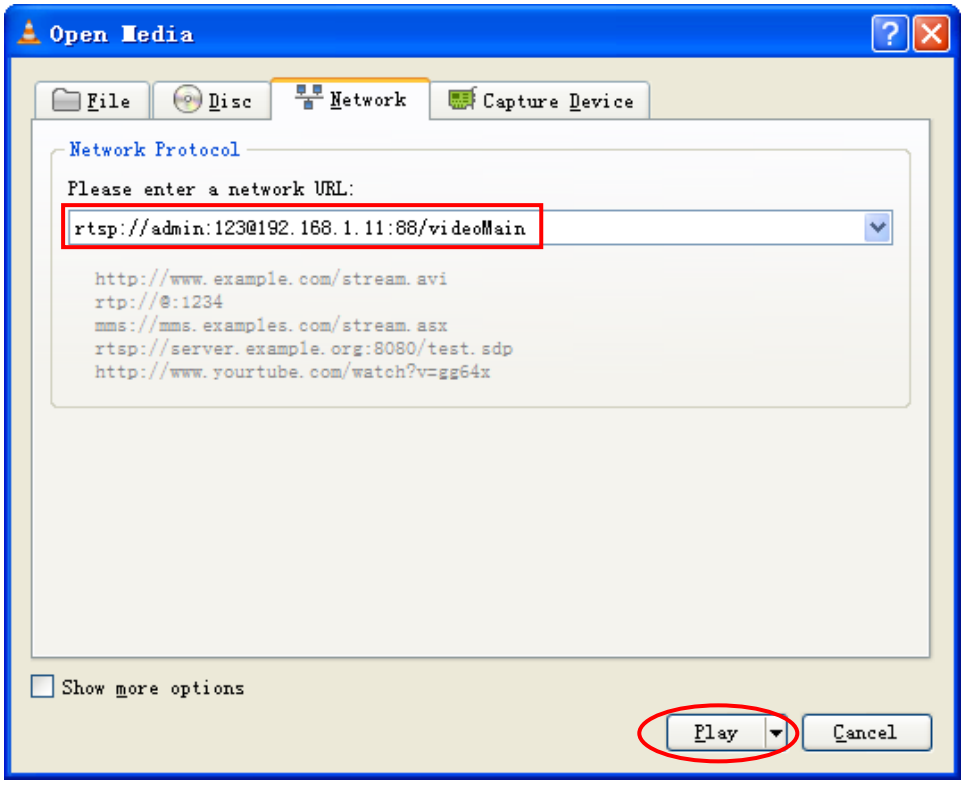


Figure 2.10

Sometimes you may need to enter the user name and password again. Click OK and you can see the real-time preview.

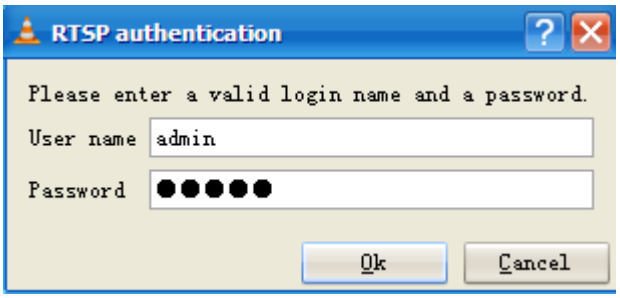


Figure 2.11

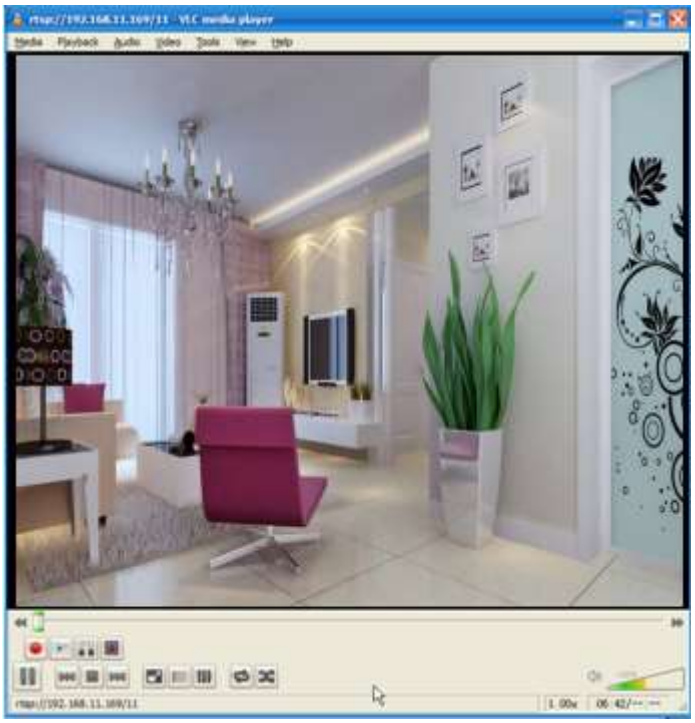


Figure 2.12

If you cannot play the video in the VLC player, please check the port mapping. You can read Quick Installation Guide about How to configure port forwarding.

NOTE:

If you modify the camera's username or password, you had better reboot the camera, or else the new username and password cannot take effect when you enter the authentication in the VLC.

2.4 IP Camera Connection to the Server

Device supports ONVIF2.2.1 protocol,You can easily access the NVR with ONVIF or server with ONVIF.

3 Surveillance Software GUI

Please refer to the Quick Installation Guide if you install the camera at first time. After finishing quick installation, you can take time to learn the operation of the software.

3.1 Login Window

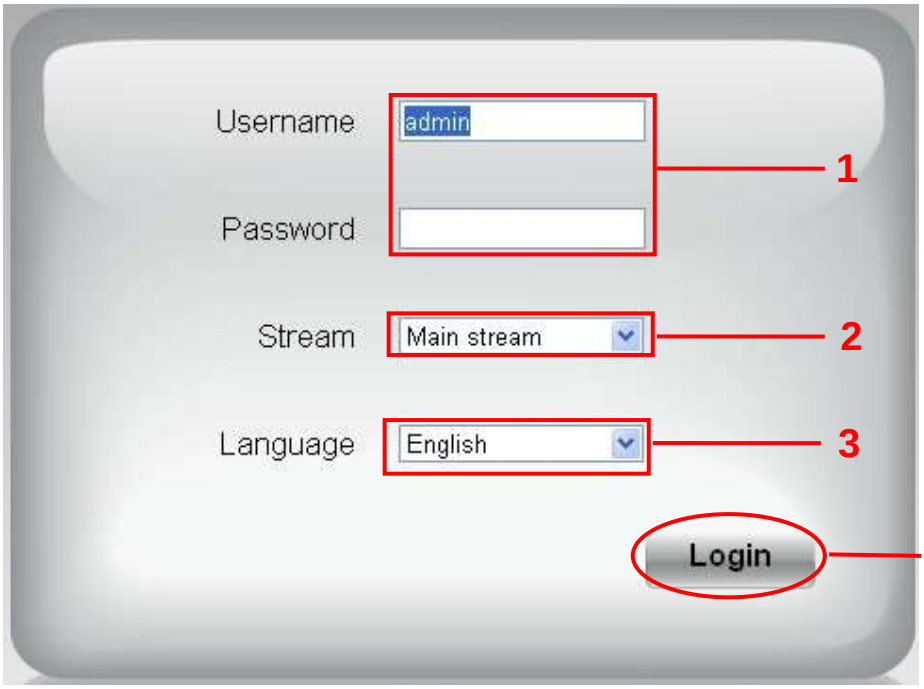


Figure 3.1

Please check the login window above, it was divided to 5 sections from no. 1 to 4.

Section1 Enter the User name and password

The default administrator username is admin with a blank password. When you first log in you will be required to change this to prevent unauthorized users logging into the camera.

Section2 Stream

The camera supports two stream modes: Main stream and sub stream. If you want to access the camera form LAN, here you can select Main stream. If you want to access the camera from Internet, here we recommend sub stream.

Note: When the network bandwidth is badly you'd better select Sub Stream and the video will be more fluency.

Section3 Select the language

You can select the language you need via click on the language drop-down list to switch.

Section4 Login the camera

Click Login button and you will see the surveillance windows.(If login the camera for the first time, the page that modify the username and password will appears.)

3.2 Modify the Username and Password

When you log in for the first time, it will require that you modify the username and password automatically.

Figure 3.2

Enter the New Username, New password and Confirm the password.
Click **Modify** button, you will see the login page again.

3.3 Setup Wizard

After logging in for the first time, you will be directed to the “Setup Wizard” automatically. Here you can set the basic parameters of camera, such as camera name, camera time, wireless settings, IP configuration.

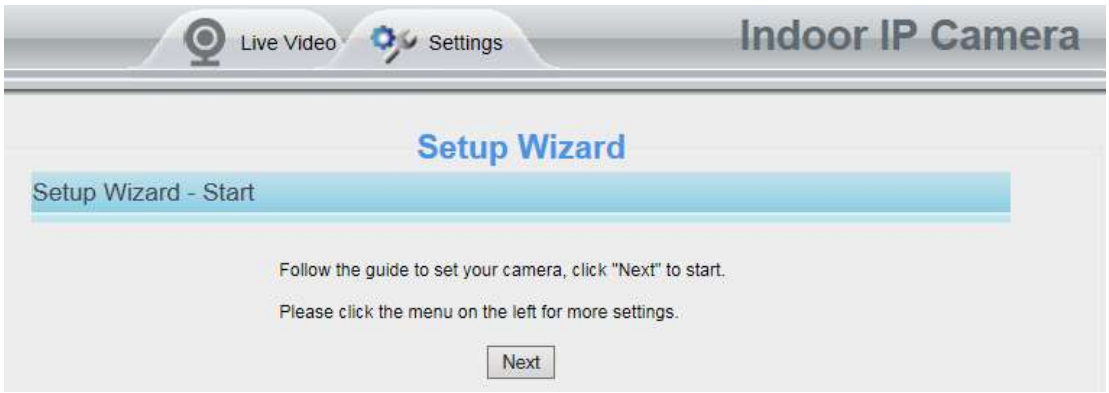

Live Video
Settings
Indoor IP Camera
Setup Wizard
Setup Wizard - Start
Follow the guide to set your camera, click "Next" to start.
Please click the menu on the left for more settings.
Next

Figure 3.2

Camera Name: You could give a name for your IP camera.

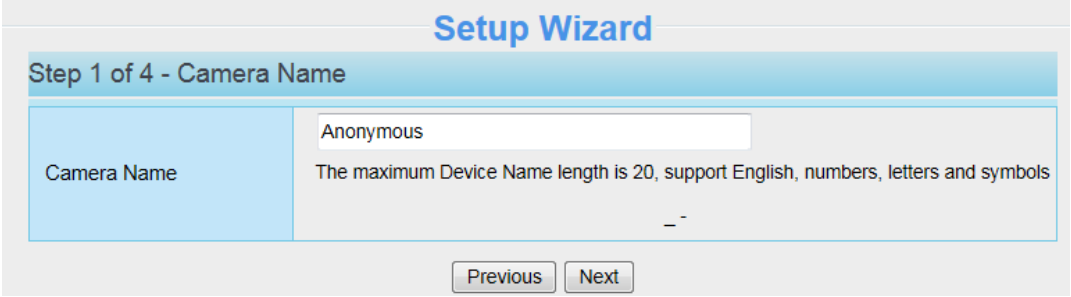


Figure 3.3

System Time: Select the time zone you need to set the date, time,format, etc.

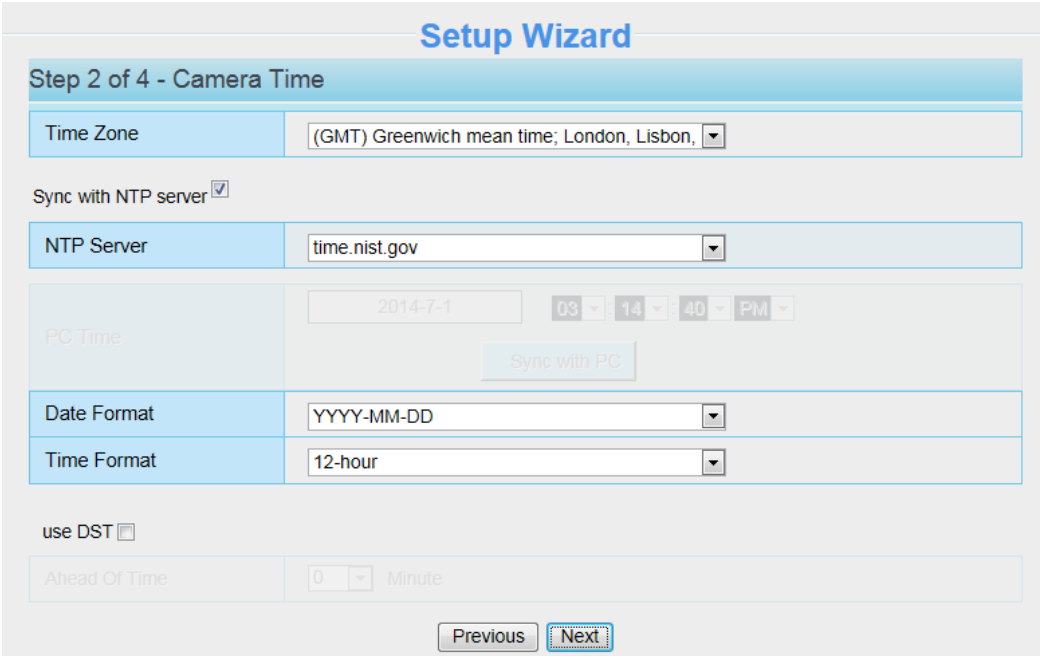


Figure 3.4

Wireless networks: Click Scan, find the SSID of your wireless router, select and enter the password.

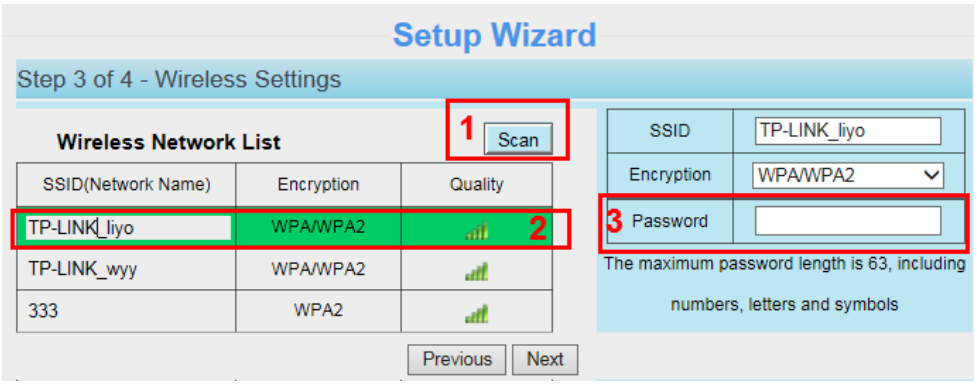


Figure 3.5

IP: Set the IP address of the camera. You could choose to obtain an IP automatically (DHCP) or set the IP address manually according to your needs.

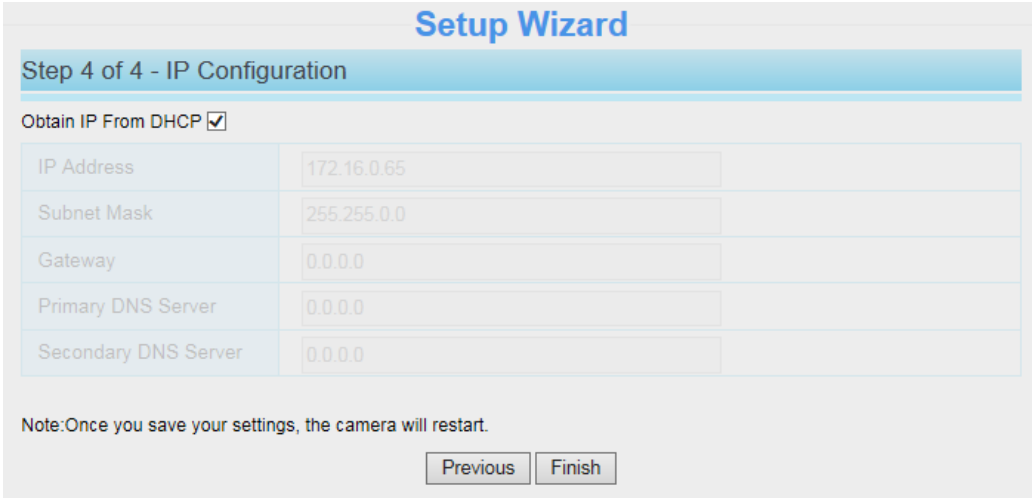


Figure 3.6

NOTE:
It takes about 1 minute to connect the camera to your router.

3.4 Surveillance Window

Figure 3.3

Section1 LiveVideo / Settings/Playback buttons

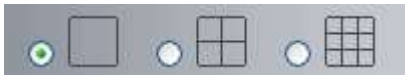
: Path to surveillance window. Click this button and back to the surveillance window

: Path to Administrator Control Panel, Click it, and it will lead to Administrator Control Panel and

do advanced settings.

: Click this button and back to the Playback panel to view the stored audio files stored in the SD Card.

Section2 Multi-Device Window



The firmware inside the camera supports up to maximum of 9 cameras being monitoring at the same time. You can add other cameras in multi-device setting.

Figure 3.4

Section3 Mode/ Stream / Mirror/ Flip buttons/Zoom

Mode

1) 50HZ ---------Indoor surveillance (Region: Europe, China)
2) 60HZ ---------Indoor surveillance (Region: USA, Canada)
3) Outdoor------Outdoor surveillance

Stream

The default stream supports multiple modes, For example: 0/720P/30fps/2M meanings: Stream type no. / Resolution / Maximum frame rate/ Bit rate. (Different models support different specific mode.)

1) Stream type no. : The number is used to identify the stream type.

2) 720P/ VGA

There are two resolutions, the bigger one is 720P, and the smaller one (VGA) is 640x480 pixels. The bigger the resolution, the better of the image quality is. If you are accessing the camera via internet and want to get more

fluid video streaming, please select resolution VGA.

3) Maximum frame rate

When the video format is 50Hz, the maximum frame rate is 25 fps. When the video format is 60Hz, the maximum frame rate is 30 fps. You should lower frame rate when the bandwidth is limited. Normally, when the frame rate above 15, you can achieve fluid video.

4) Bit rate

Generally speaking, the larger the bit rate is, the clearer video will become. Lower bandwidth may require a lower bitrate for optimal video performance.

You can reset the stream type on **Settings-> Video-> Video Settings** panel.

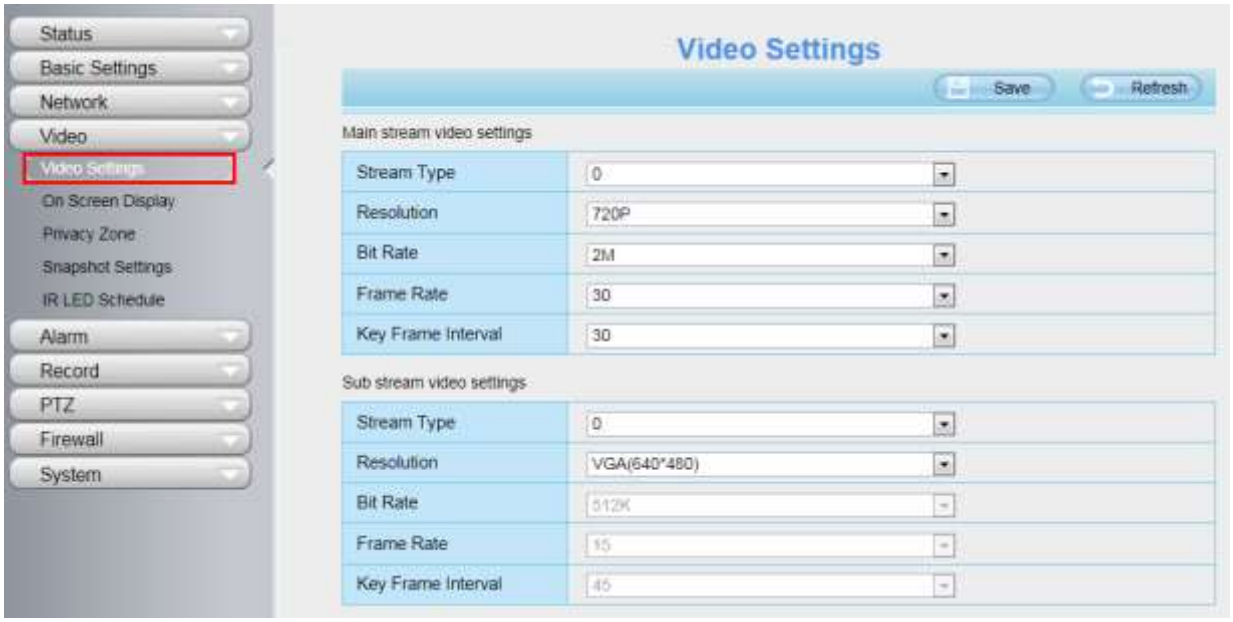


Figure 3.5

After changing, please re-login the camera and you can see the modification.

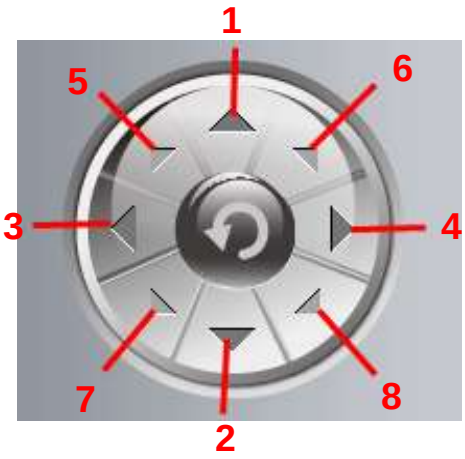
Zoom Control(Only FC2503PZ)

Zoom the camera's lens.

Zoom the camera' lens.

You can adjust the speed of the lens' zoom at **Settings--PTZ--Pan & Tilt Speed--Zoom speed.**

Section4 **Pan/Tilt Control**(except for FC1403P)

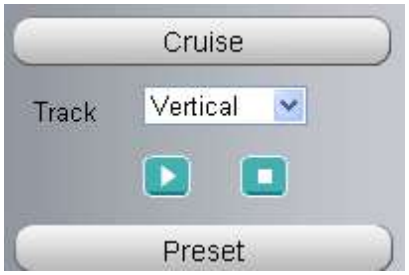


1----- Up control button, 2----- Down control button,
3----- Left control button, 4----- Right control button,
5----- Up-Left control button 6----- Up-Right control button
7----- Down-Left control button 8----- Down-Right control button

Click this button and go to center

Section5 **Cruise / Preset settings**(except for FC1403P)

Cruise Settings



The default cruise tracks have two types: Vertical and Horizontal.
Vertical: The camera will rotate from up to down.
Horizontal: The camera will rotate from left to right.

: Start cruise. : Stop cruise.

If you want to define or change the cruise trace, please go to **Settings→ PTZ →Preset Settings** panel.

How to do cruise?

Firstly: Select one track in the track drop-down list

Secondly: Click Start cruise button, the camera will cruise following the predefined path.
Thirdly: Click stop button and finish cruising.

Preset settings

IPCAM supports 16 preset positions, which is considered enough for DIY home & small business surveillance market

The default preset position is Topmost, Bottom most, Left most, right most, you can add other preset positions.

Add Click this icon to save the position you need the camera to remember

Delete Select one preset position and click this button to delete it.

GO Select one preset position in the preset drop-down list and click Go to make the camera move the preset position

How to do preset position?

Firstly, move the camera and stop at a desired place where you want make preset position.

Secondly, click button and enter a descriptive name for the preset position. The preset position cannot contain special characters. Then click OK to save it. If you want to reset the preset position, click Cancel.
After that, you can move the camera and stop at another place, and set another preset position. You can do all the 16 preset positions with this method.
If you want to see one preset position you have set, only select the preset position name from the preset drop-down list, and click go button, the camera will go to the preset position.

Section6 IR LED Lights

Click Infra led and there are three modes to adjust the infrared led: Auto, Manual and Schedule.

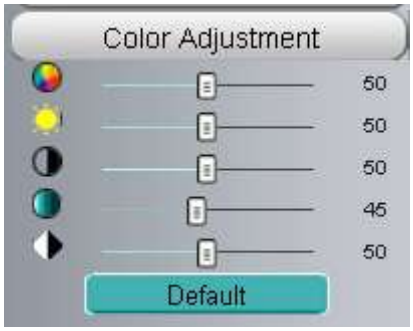
Auto: Select it and the camera will adjust the infra led (on or off) automatically.

Manual: Select it and you can turn on or turn off the infrared led manually.

Schedule: Select it and the IR led light will be off at the schedule period. If you want to define or change the IR led lights schedule time, please go to **Settings--->Video---> IR LED Schedule** page.

Section7 Image quality settings

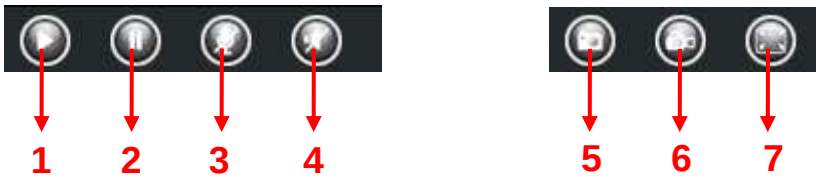
In this page, you can tune Hue, Brightness, Contrast, Saturation, and Sharpness to get higher quality.



Section8 OSD

If you have added time and camera name in the video, you can see it in the live window.
Go to **Settings ---Basic settings---Camera name** panel, and you can change another device name. The default device name is anonymous.
Go to **Settings ---Basic settings---Camera time** panel and adjust the device time.
Go to **Settings ---Video---On Screen Display** panel, you can add or no add OSD.

Section9 Play/Stop/ Talk/Audio/ Snap/ Record/ Full screen button



1 ----- Play Click it to play the video of the camera
2 ----- Stop Click it to stop the video of the camera

3 ----- Talk Click the button and the icon will become to , then talk to the microphone that connected with PC, people around the camera can here your voice. Click the icon again and stop talking.

4 ----- Audio Click this icon, the icon will become to you can hear the sound around the camera by the

earphone or speakers that connected with PC.

5 ----- Snapshot Click it to make snapshot and it pop-up a window which picture you snapshot, right click in the window and save the picture to anywhere you want.

6 ----- Record Click the icon and the camera start recording, you can see a green dot in the live window. Click again and stop recording. The default storage path is C:\IPCamRecord. You can change the storage path: Go to Settings- >Record->Storage Location panel.

7 ----- Full Screen Click it to make full-screen, or you can double click the surveillance screen to make full-screen. Double click again and exit full-screen.

Onscreen Mouse Control

Right click the mouse and you can adjust the screen ration, full screen and Zoom up.

Figure 3.6

Keep ratio: Select it and the camera will adjust the size of live window based on the computer monitor automatically. Sometimes there is a black border around the video, please select Keep ration to get a better visual quality .

Full Screen: Select it and Click it to make full-screen, press ESC and exit full-screen.

Zoom up:

First Method: Here is a convenient and fast solution to Zoom up/down screen by Clicking Video Screen and adjusting Mouse pulley, or by press the CTRL key and click the mouse left button.

Second Method: Click it and the live view will be digital zoomed up, then click Zoom Down and the live view back to original size.

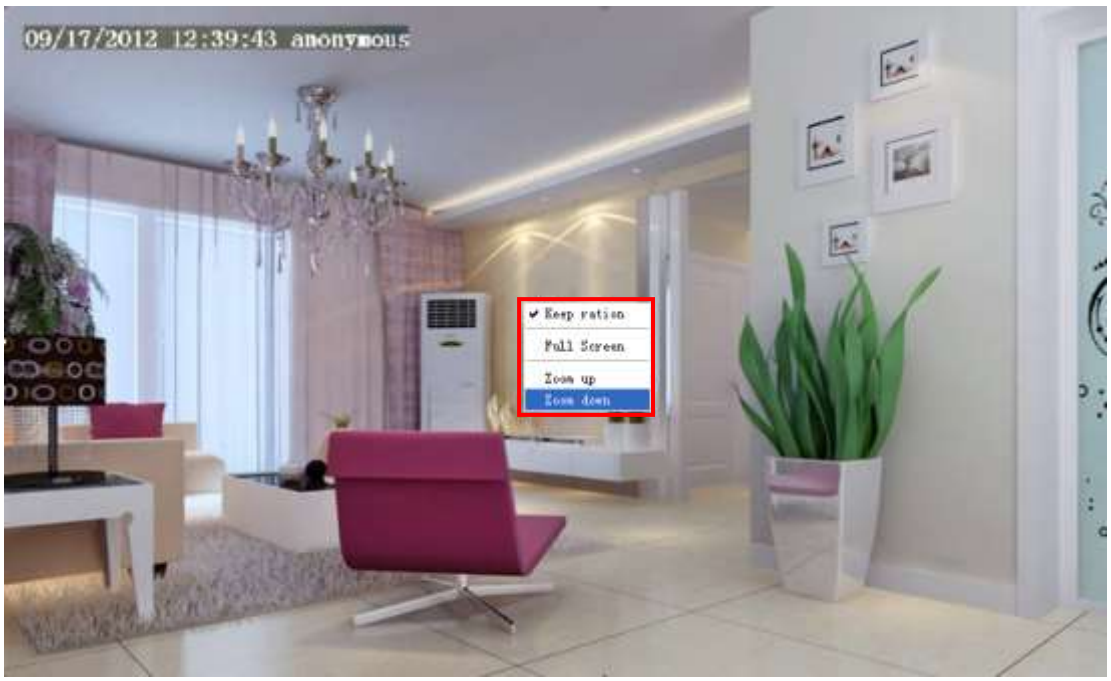


Figure 3.7

When you select the Full Screen, then click right mouse, there is a **Screen PTZ** button.

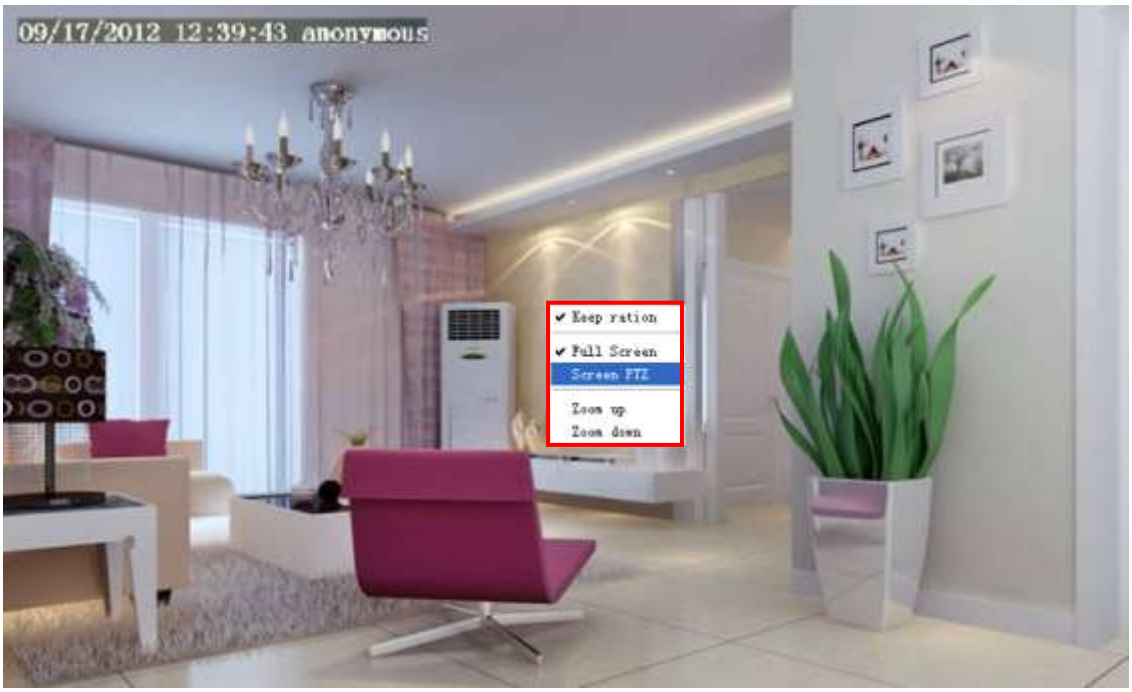


Figure 3.8

Click the **Screen PTZ** button and put the mouse on the screen to indicate the camera move direction you prefer, press the left mouse, the camera will move to the corresponding direction. Loosen the mouse and stop moving. Press Esc button or double click right mouse and cancel the function.

NOTE:

For Mac OS, the plugin cannot support Onscreen Mouse Control, so you cannot allow to use it.

4 Advanced Camera Settings

Click the button “**Settings**”, goes to Administrator Control Panel to make advanced camera settings.

4.1 Status

Status contains four columns: Device Information, Device Status, Session Status and Log, it will show you various information about your camera.

4.1.1 Device Information

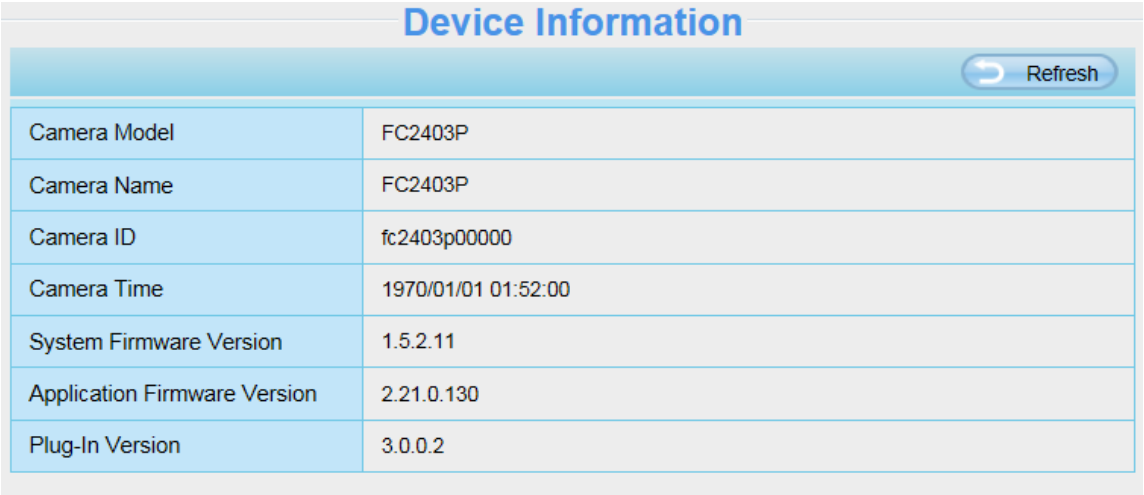


Figure 4.1

Camera Model: The camera model no.

Camera Name: The Device Name is a unique name that you can give to your device to help you identify it. Click **Basic Settings** and go to **Camera name** panel where you can change your camera name. The default device name is anonymous.

Camera ID: Display the wired MAC address of your camera. For example Device ID is 000C5D00008, the same MAC ID sticker is found at the bottom of the camera.

Camera Time: The system time of the device. **Click Basic Settings** and go to **Camera time** panel and adjust the time.

System Firmware version: Display the System Firmware version of your camera.
App Firmware version: Display the application firmware version of your camera.
Plug-in version: Display the plug-in version of your camera

4.1.2 Device Status

On this page you can see device status such as Alarm status/ Record Status ,DDNS status ,WIFI status and so on.

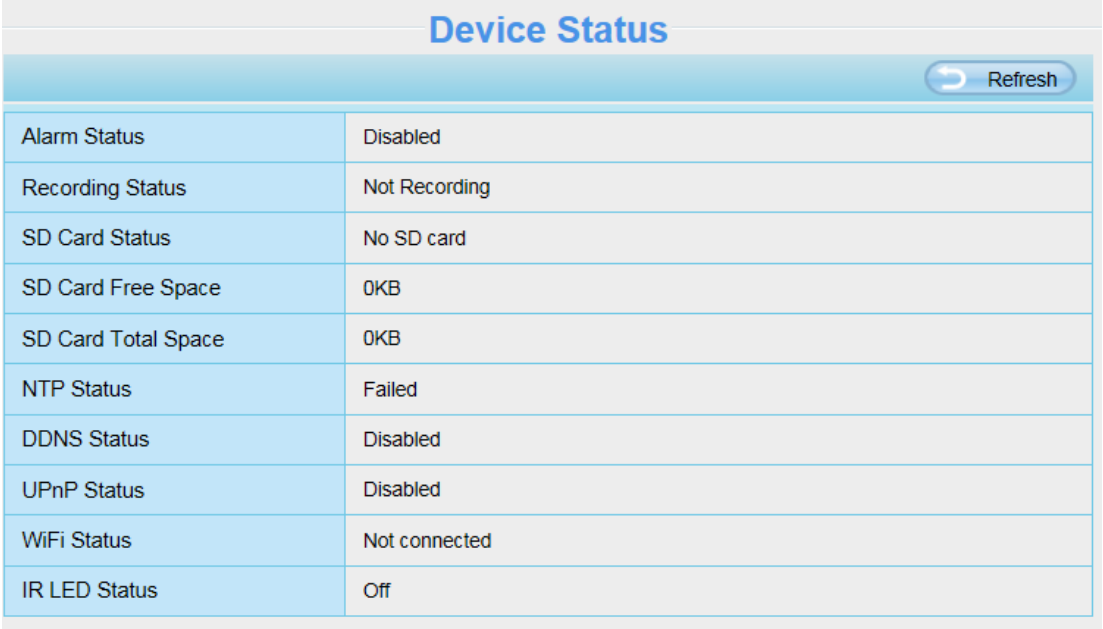


Figure 4.2

4.1.3 Session Status

Session status will display which users are currently viewing the camera, as well as their IP address

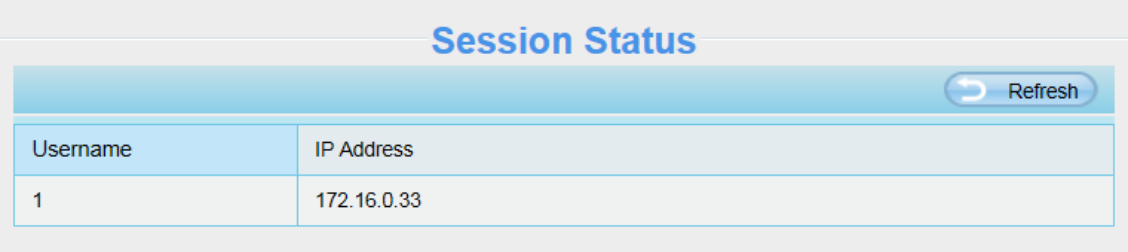


Figure 4.3

4.1.4 Log

The log record shows who and which IP address accessed or logout the camera and when.

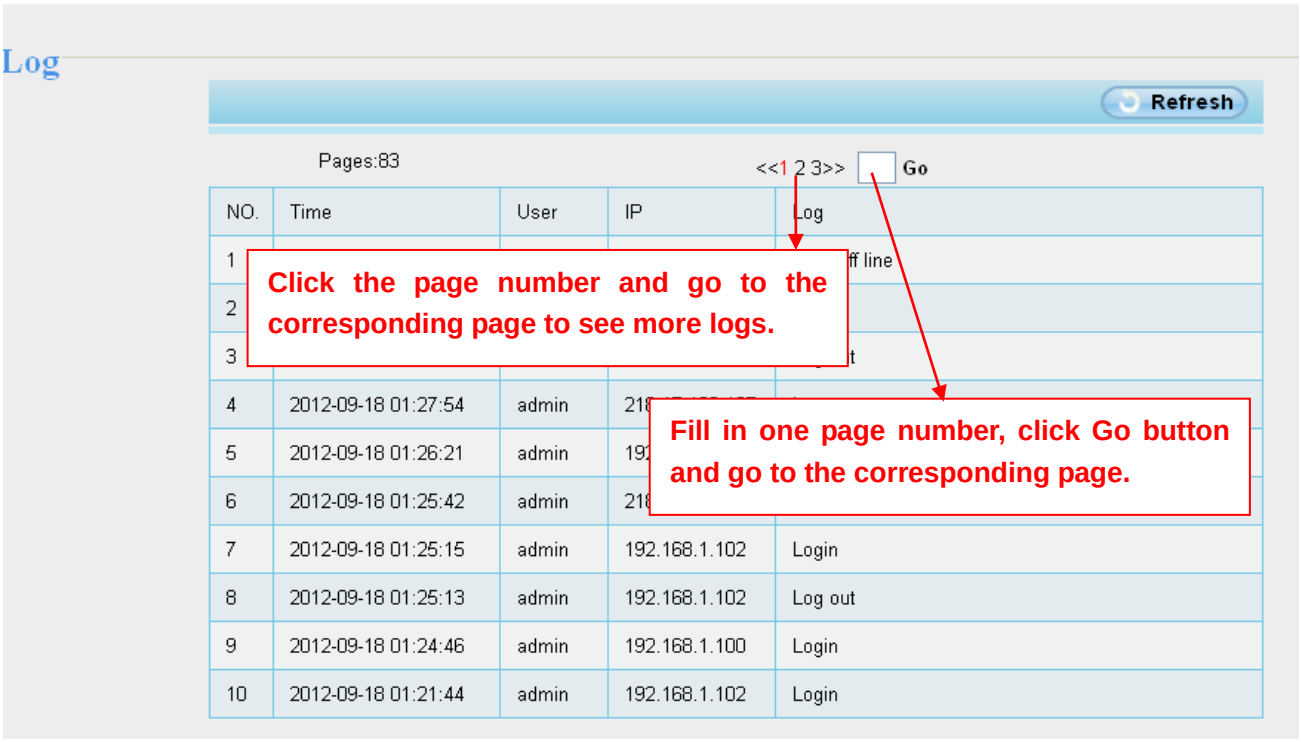


Figure 4.4

Reboot the camera and clear the log records.

4.2 Basic Settings

This section allows you to configure your camera's Name, Time, Mail, User account and Multi-Device.

4.2.1 Camera Name

Default alias is anonymous. You can define a name for your camera here such as apple. Click Save to save your changes. The alias name cannot contain special characters.

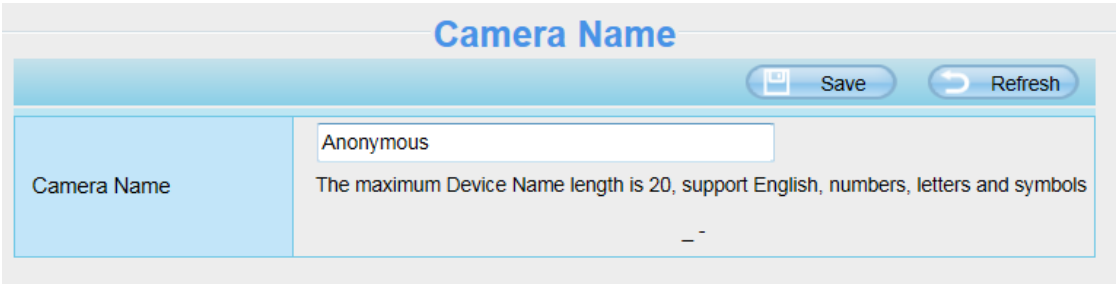


Figure 4.5

4.2.2 Camera Time

This section allows you to configure the settings of the internal system clocks for your camera.

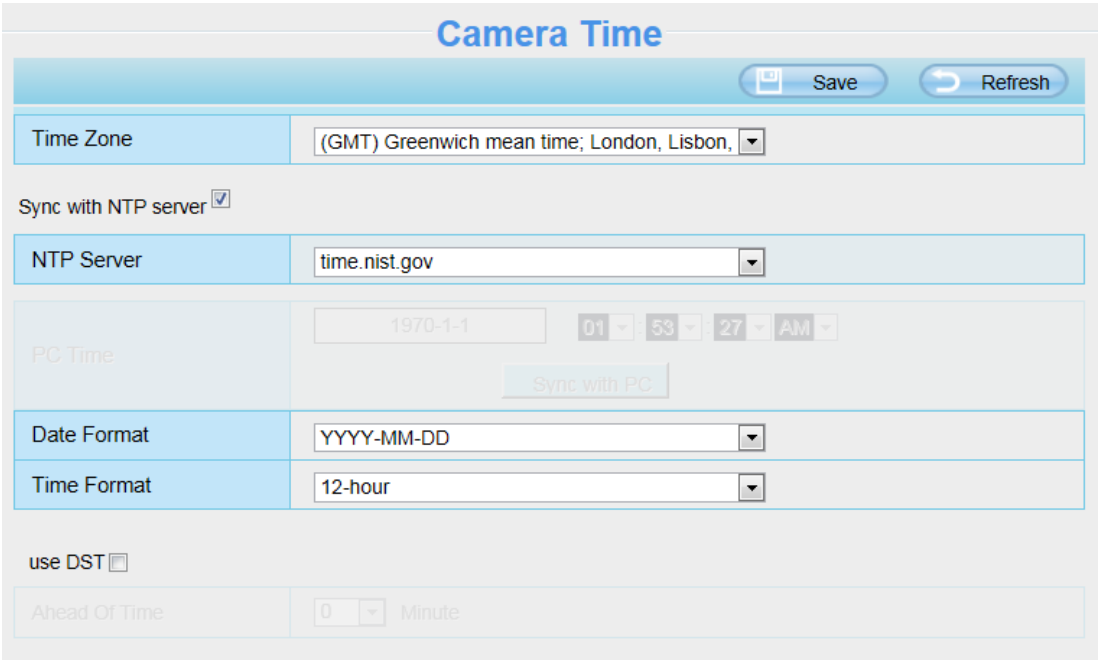


Figure 4.6

Time Zone: Select the time zone for your region from the drop-down menu.

Sync with NTP server: Network Time Protocol will synchronize your camera with an Internet time server. Choose the one that is closest to your camera.

Sync with PC: Select this option to synchronize the date and time of the Network Camera with your computer.

Manually: The administrator can enter the date and time manually. Note select the date and time format.

use DST: Select the use DST, then select the daylight saving time from the drop-down menu.

Click **Save** button and submit your settings.

4.2.3 User Accounts

Here you can create users and set privilege, **visitor, operator** or **administrator**. The default user account is admin, with a blank password. You can enter the users accounts of visitor 、operator and adminstrator Manually.

Visitor: Can view live stream only
Operator: Can pan/tilt image and change brightness/ir/colors
Admin: Full access to settings

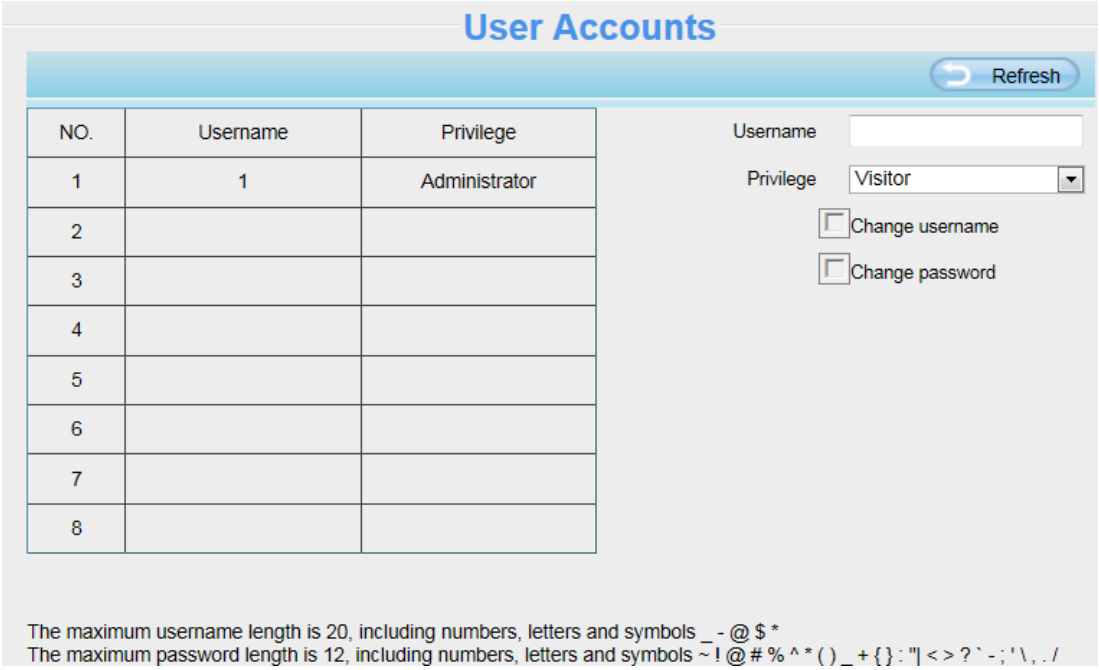


Figure 4.7

How to change the password of administrator?

Firstly, select the account of administrator, then select “Change password”, enter the old password and the new password, lastly click modify to take effect.

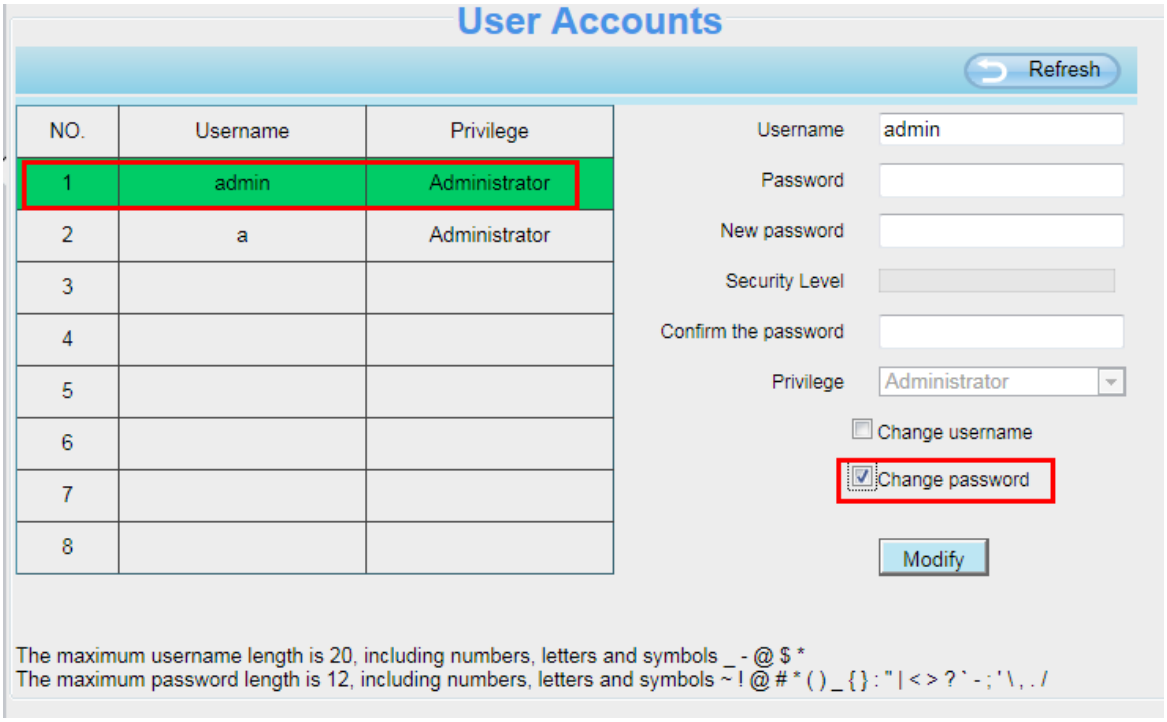


Figure 4.8

How to add account ?

Select one blank column, then enter the new user name, password and privilege, last click Add to take effect. You can see the new added account on the Account list.

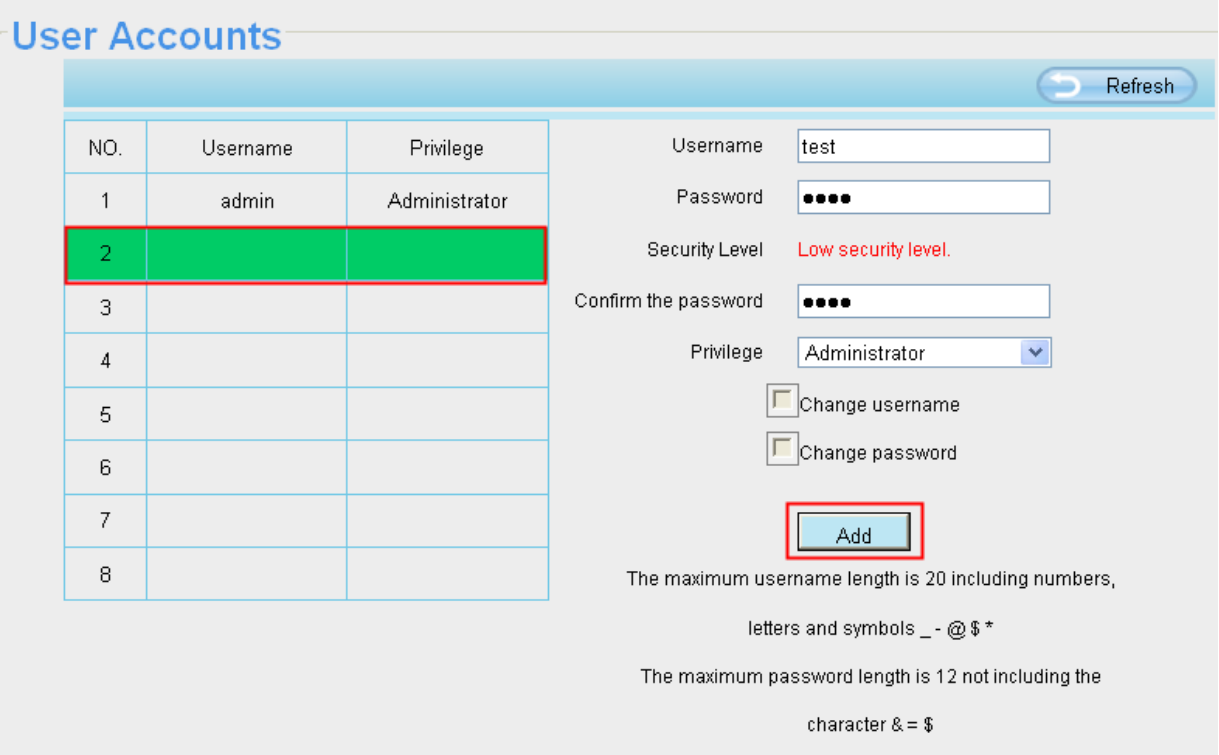


Figure 4.9

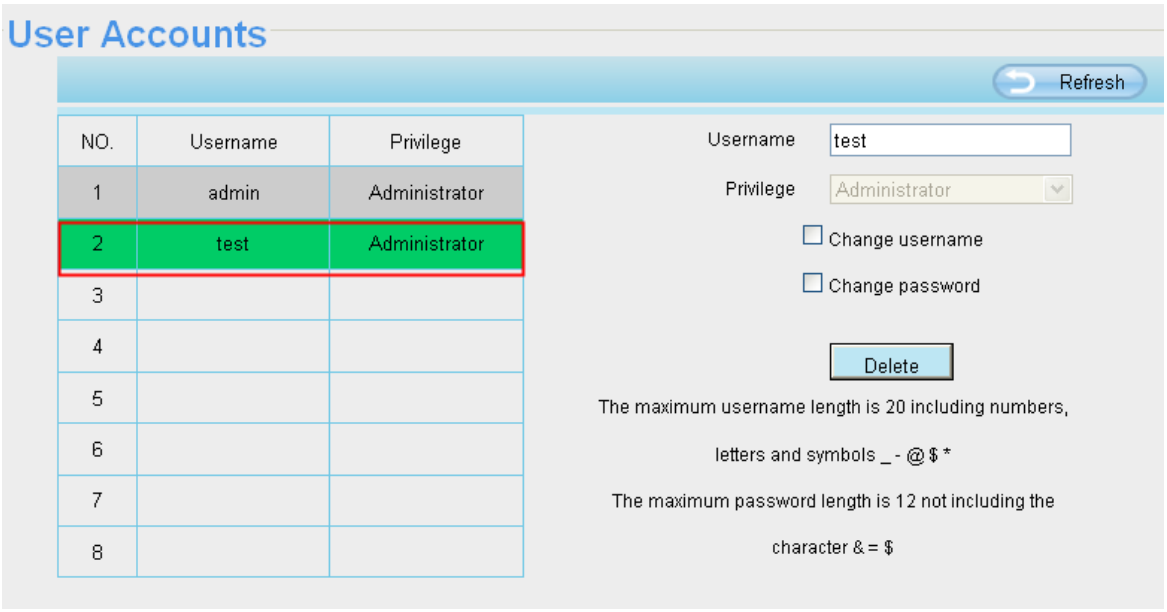


Figure 4.10

Delete：Select the account which you want to delete, then click Delete button to take effect.

NOTE:

The default admin account cannot be deleted, but you can add other administrator users.

4.2.4 Multi-Camera

If you want to view multi-surveillance screens on one window, you need to login one camera, and set it as the main device, and do Multi-Device Settings, add other cameras to the first one camera. Before you do multi-cams settings, you need to assign different port such as 81, 82, 83, 84, 85, 86, 87, 88 to the cameras if there is 8 cams installed.
Your rooter may be limited to less cameras depending on bandwidth.

Add cameras in LAN

In Multi-Device Settings page, you can see all devices searched in LAN. The 1st Device is the default one. You can add more cameras in the list in LAN for monitoring. The camera's software supports up to 9 IP Cameras online simultaneously. Click **The 2nd Device** and click the item in the **Device List in LAN**, the Alias, Host and Http Port will be filled in the boxes below automatically. Enter the correct username and password then click **Add**. Add more cameras in the same way.

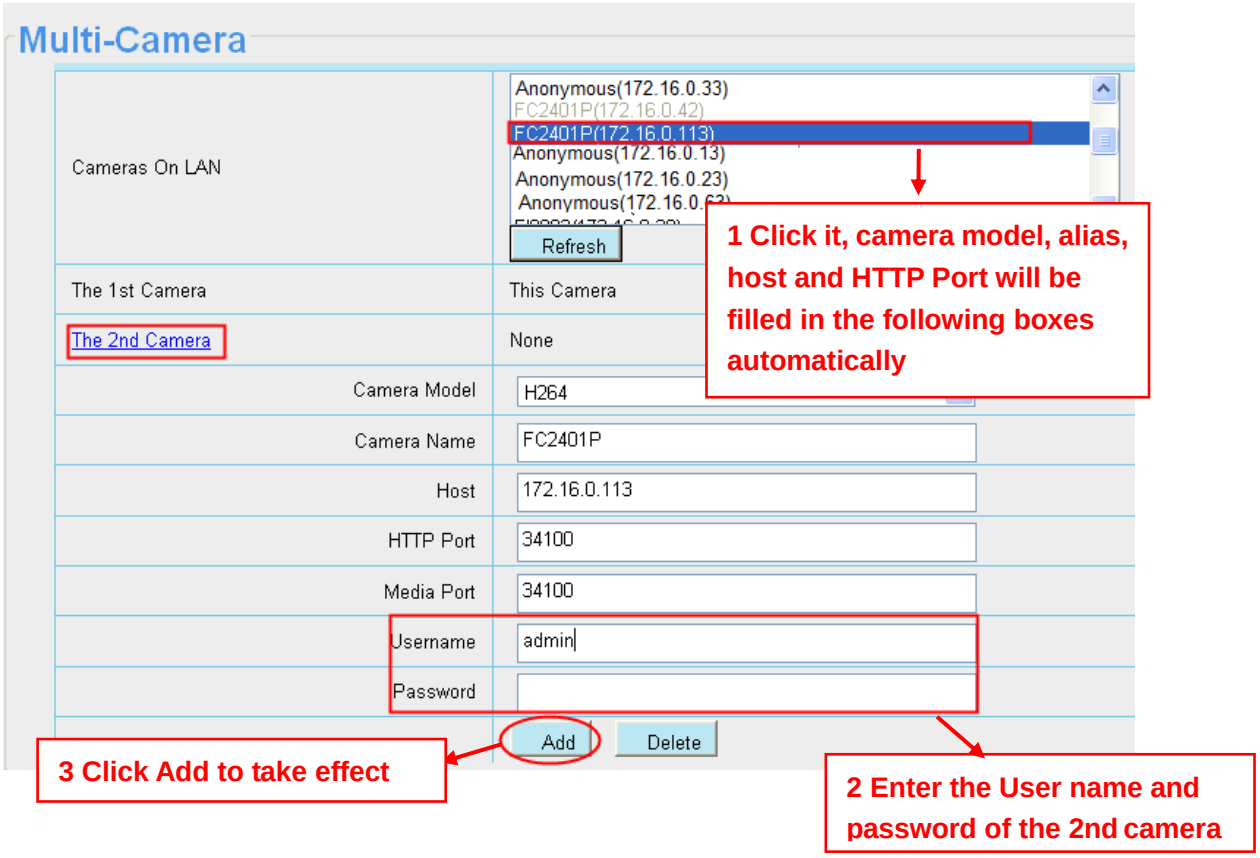


Figure 4.11

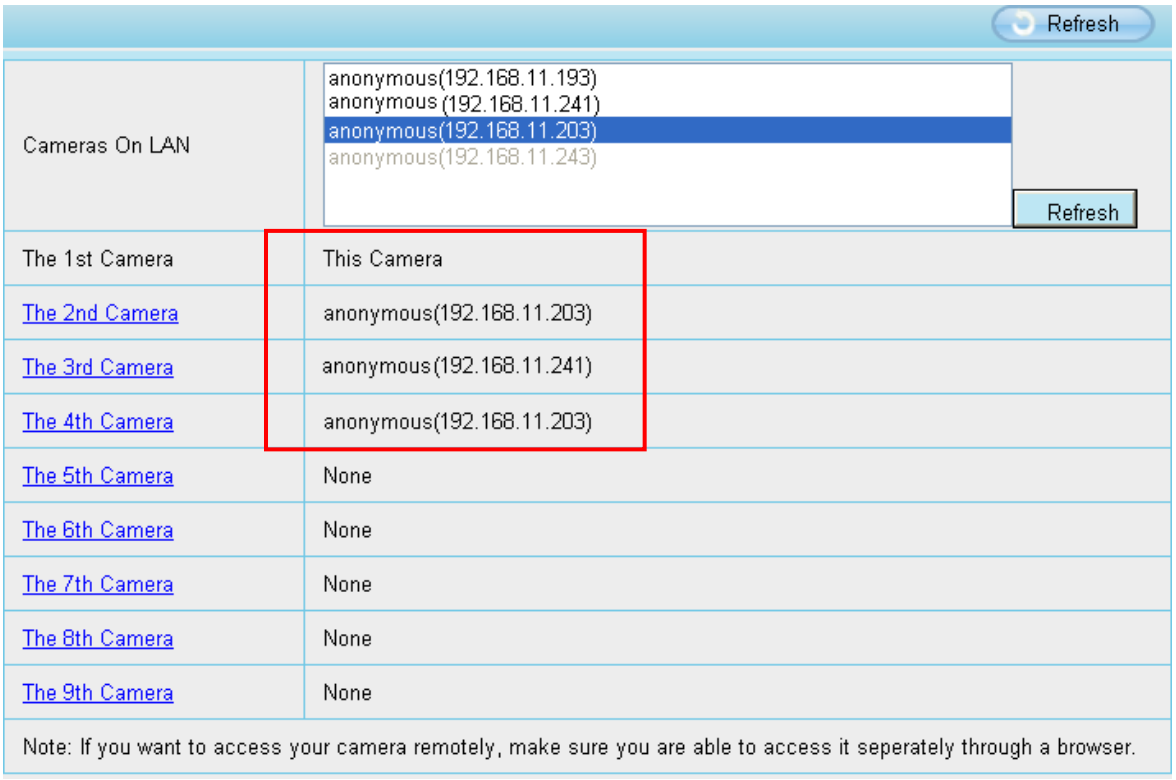


Figure 4.12

Back to **Live Video**, and click Four Windows option, you will see four cameras you added.

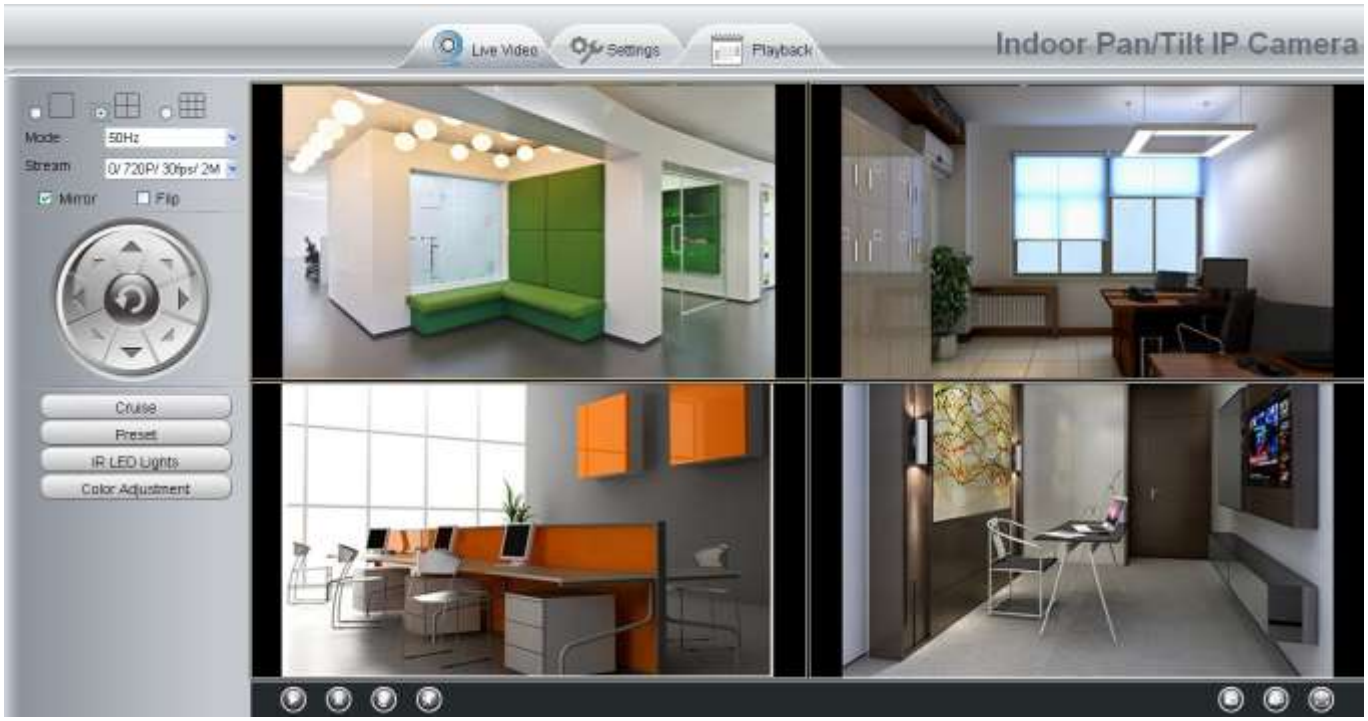


Figure 4.13

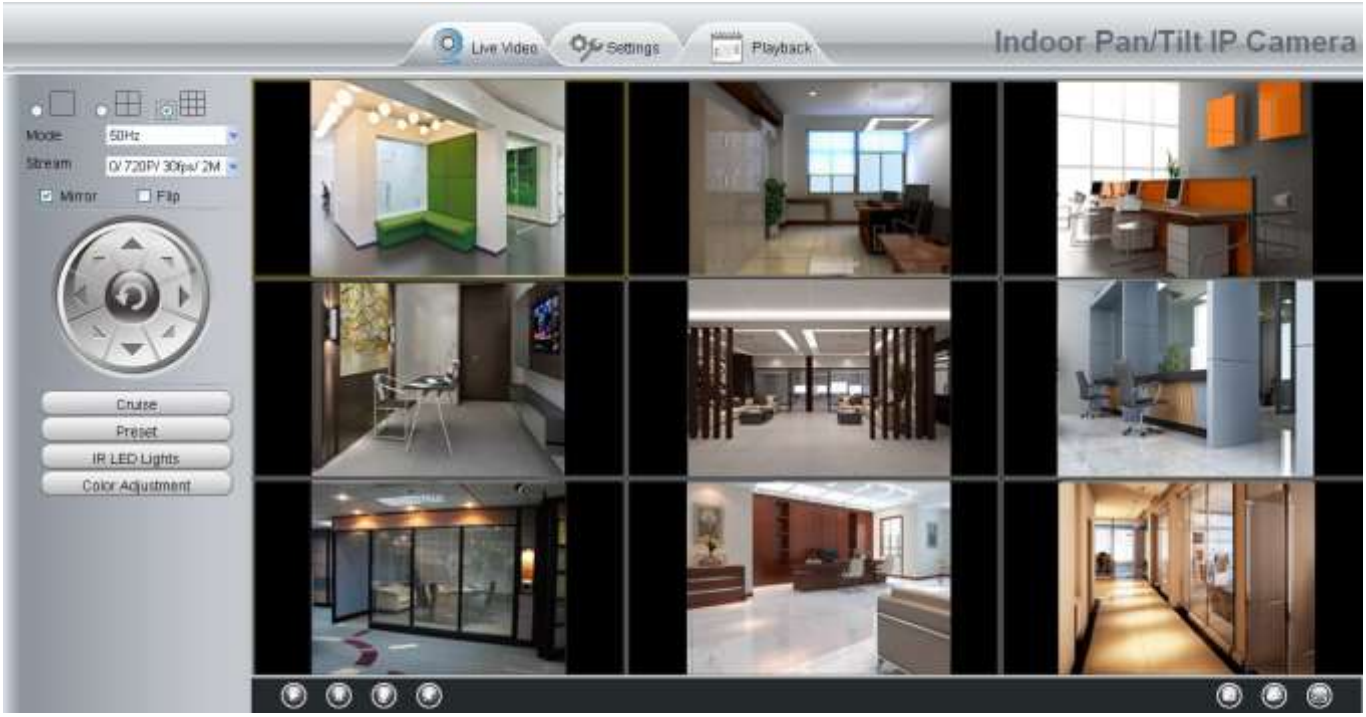


Figure 4.14

Add cameras in WAN

If you want to view all cameras via the internet(remote computer), you will need to add them using DDNS domain name. Firstly, make sure all of the cameras you added can be accessed through the internet. (**Read How to configure DDNS settings in chapter 4.3.3**)
Login to the first camera using a DDNS domain name and port.

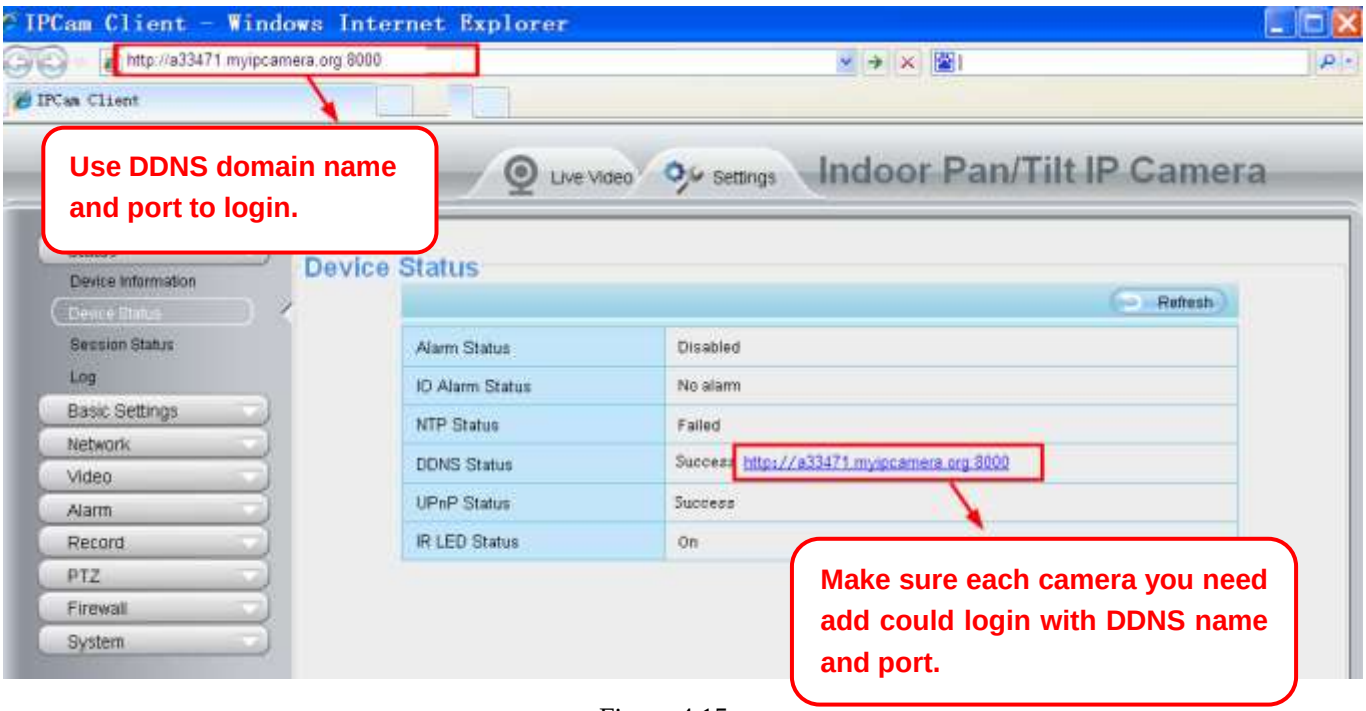


Figure 4.15

Click **Multi-Device Settings**. Choose **The 2nd Device**. Fill in the 2nd camera's name, DDNS domain name, port number. Enter user name and password and then choose Add. (Figure 4.19)

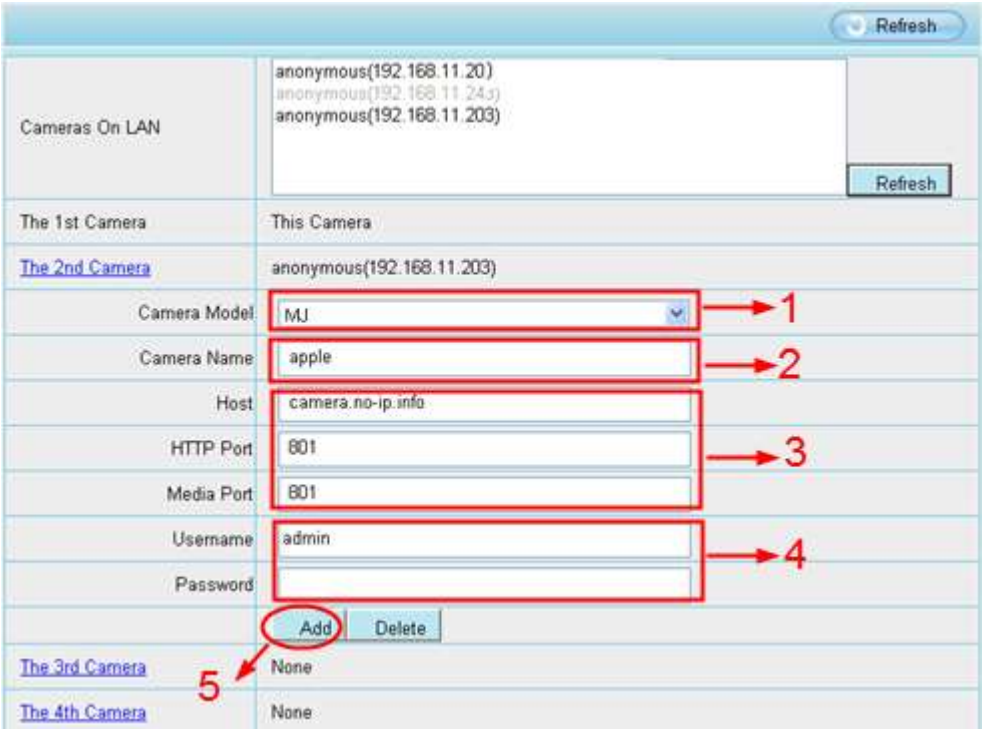


Figure 4.16

1----- The camera model: H264.
2----- The 2nd camera's name
3----- Fill in the 2nd camera's DDNS host not LAN IP
4---- Enter the 2nd camera's user name and password
5---- Click Add button and to take effect

NOTE: Here the Host must be entered as the second camera's DDNS domain name, not its LAN IP.

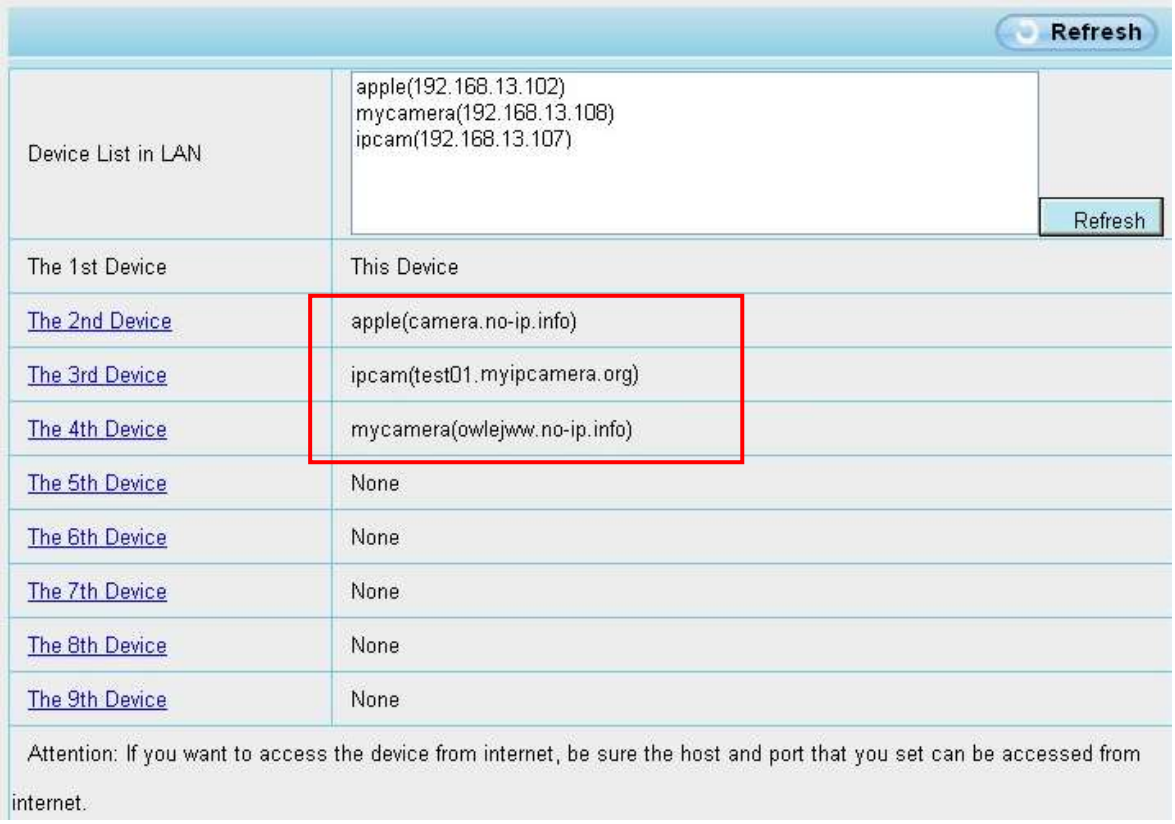


Figure 4.17

Return to video window. You will see all of the cameras accessible through the internet.
When you are away from home, you can use the first camera's DDNS domain name and port to view all the cameras via internet.

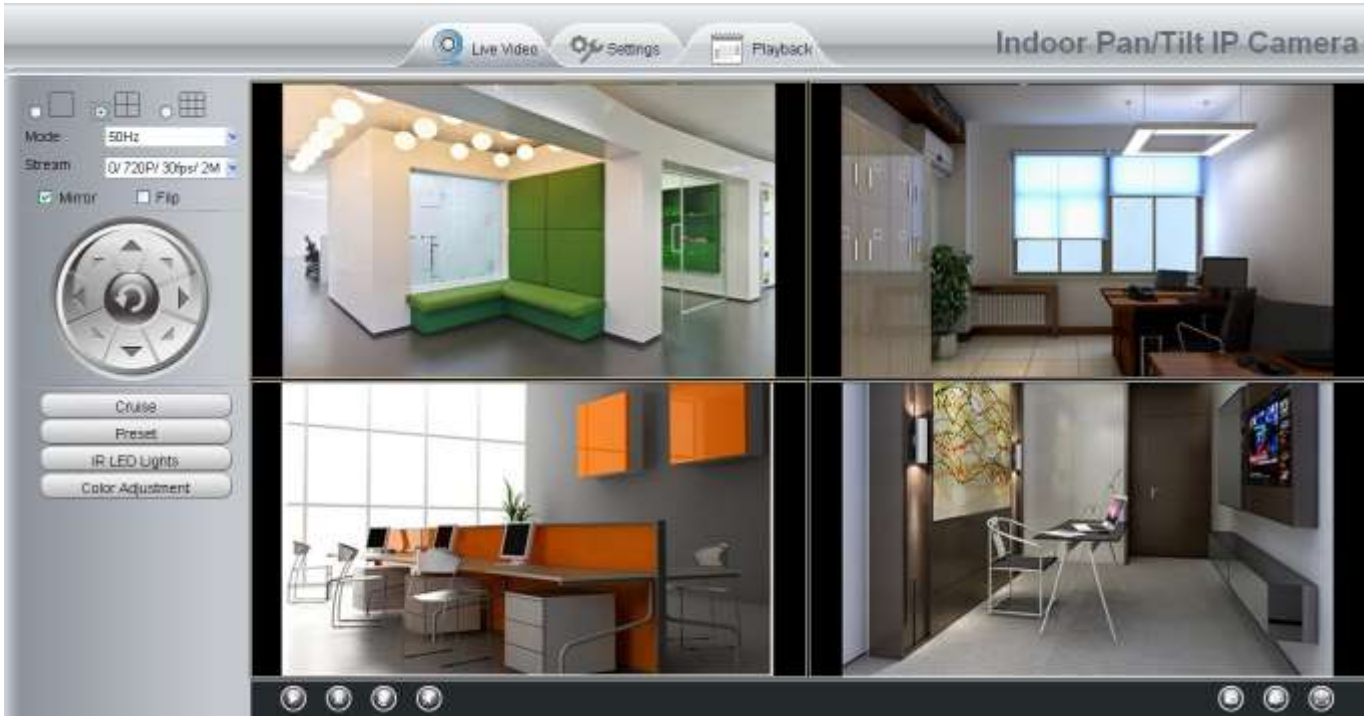


Figure 4.18

4.3 Network

This section will allow you to configure your camera's IP, PPPoE, DDNS, Wireless Settings, UPnP and Port.

4.3.1 IP Configuration

If you want to set a static IP for the camera, please go to **IP Configuration** page. Keep the camera in the same subnet of your router or computer.

Figure 4.19

Changing settings here is the same as using the IP Camera Tool.
It is recommended that you use the subnet mask, gateway and DNS server from your locally attached PC. If you don't know the subnet mask, gateway and DNS server, you can check your computer's local area connection as follows:
Control Panel → Network Connections →Local Area Connections →Choose Support → Details.

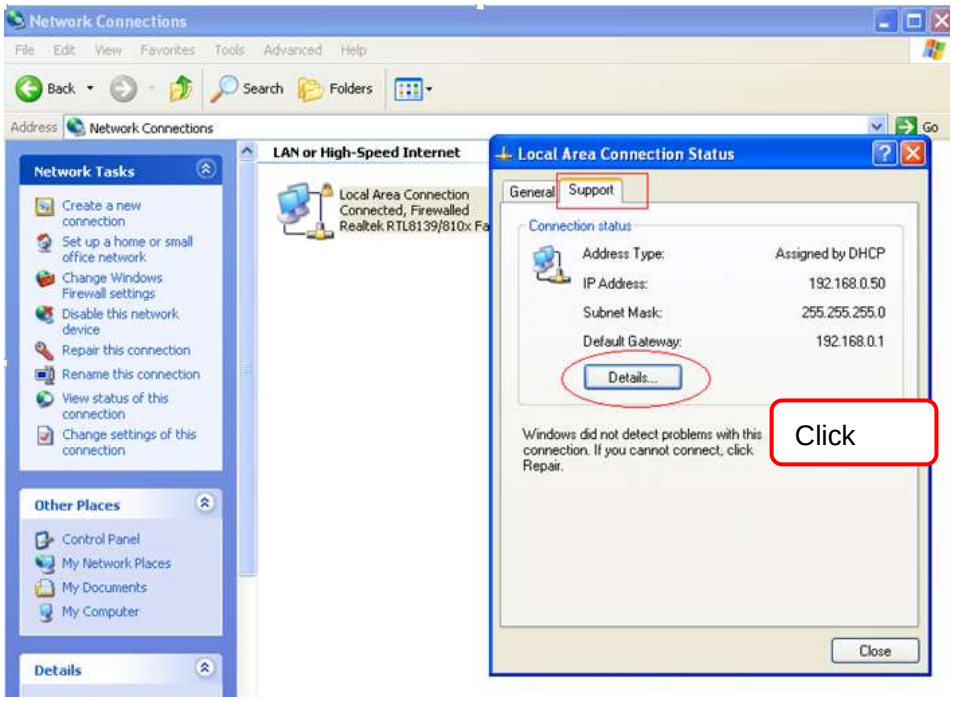


Figure 4.20

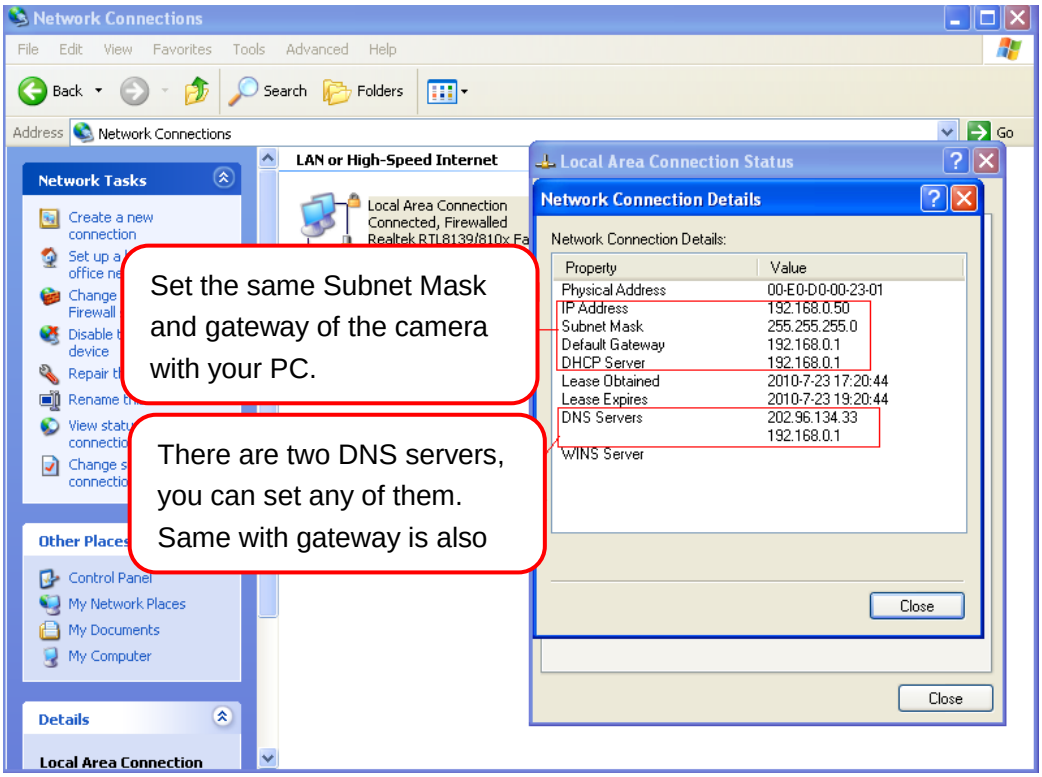


Figure 4.21

If you don't know the DNS server, you can use the same settings as the Default Gateway.

4.3.2 Wireless Settings

Step 1: Choose "**Settings**" on the top of the camera interface, and go to the "**Network**" panel on the left side of the screen, then click "**Wireless Settings**."

Click the **Scan** button and the camera will detect all wireless networks around the area. It should also display your router in the list.

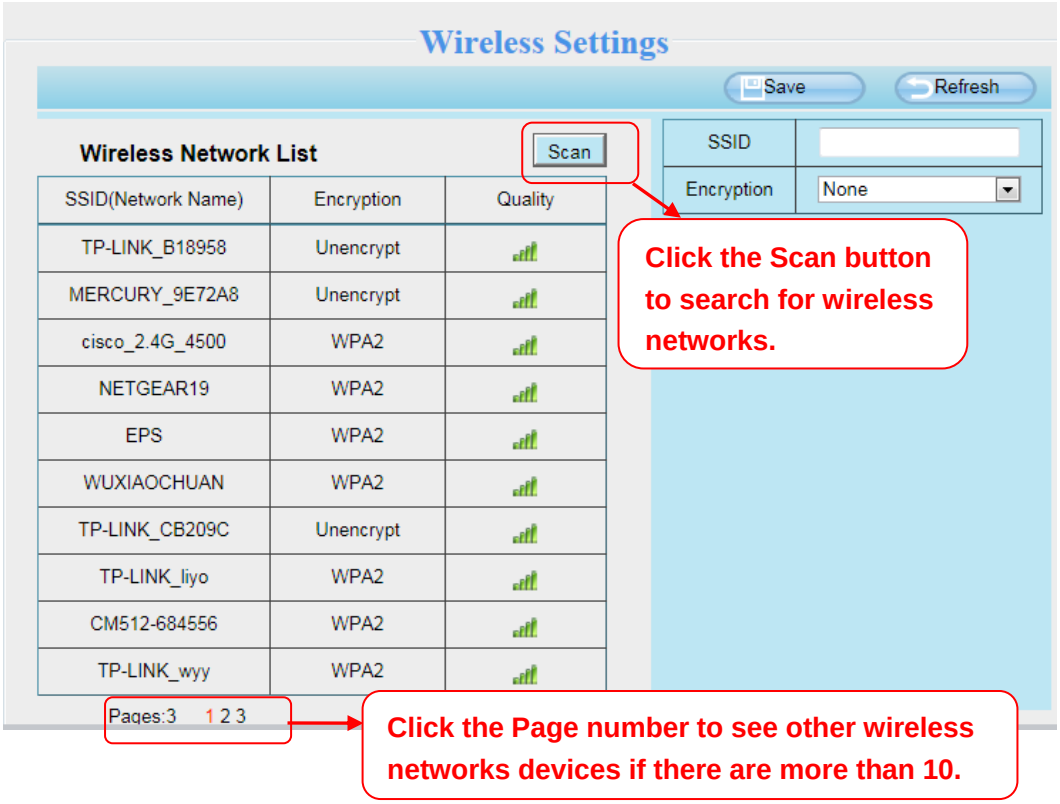


Figure 4.22

Step 2: Click the SSID (name of your router) in the list, the corresponding information related to your network, such as the name and the encryption, will be filled into the relevant fields automatically.
You will only need to fill in the password of your network. Make sure that the SSID, Encryption and the password you filled in are exactly the same for your router.

Figure 4.23

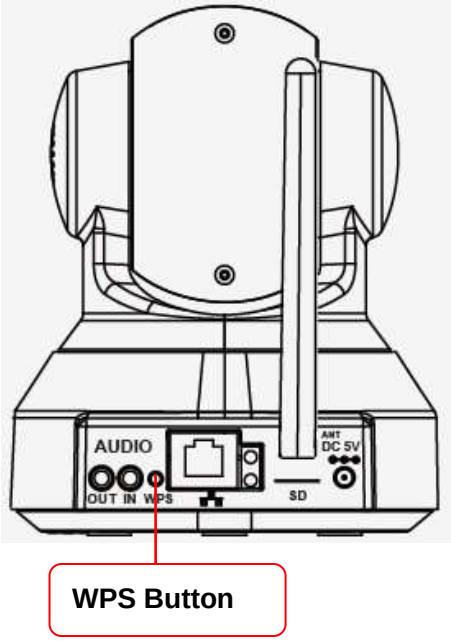
Step 3: Please click on the **Save** button after all settings have been entered and disconnect the network cable. Never shut down the power of the camera until the IP camera is able to connect to the wireless network.

The LAN IP address will disappear on the window of IP Camera Tool when the camera is configuring a wireless connection. Wait about 1 minute, the camera should obtain a wireless connection, and the LAN IP of the camera will show again on the window of the IP Camera Tool. The IP address may have changed after the camera receives a wireless connection; we recommend setting a static local IP address if this IP address changes by right clicking the camera in IP Camera Tools, setting a static IP, and pushing OK (see Figure4.36). Congratulations! You have set up the wireless connection of the camera successfully.

NOTE:
If you fail to make a wireless connection, please refer to your seller or contact us directly for assistance.

WPS (Wi-Fi Protected Set-up)

Step 01) Press and hold the WPS button for **two seconds.**



Step 02) Press the WPS button on your router **within 60 seconds**. The WPS button is usually on the back or side of your router. On some routers, you may need to log in to the web interface and click on an on-screen button to activate the WPS feature. If you are not sure where the WPS buttons is on your router, please refer to your router's User Manual.

The camera will automatically create a secure wireless connection to your router. If you have plugged in the network cable, please plug it out. The IP Camera Tool will search the camera's LAN IP. Make sure the PC and the camera share the same subnet.

NOTE:
The security mode of router cannot be WEP, or else the WPS settings may be failed.

4.3.3 PPPoE

If you are using a PPPoE connection, enable it and enter the User Name and Password for your PPPoE account.

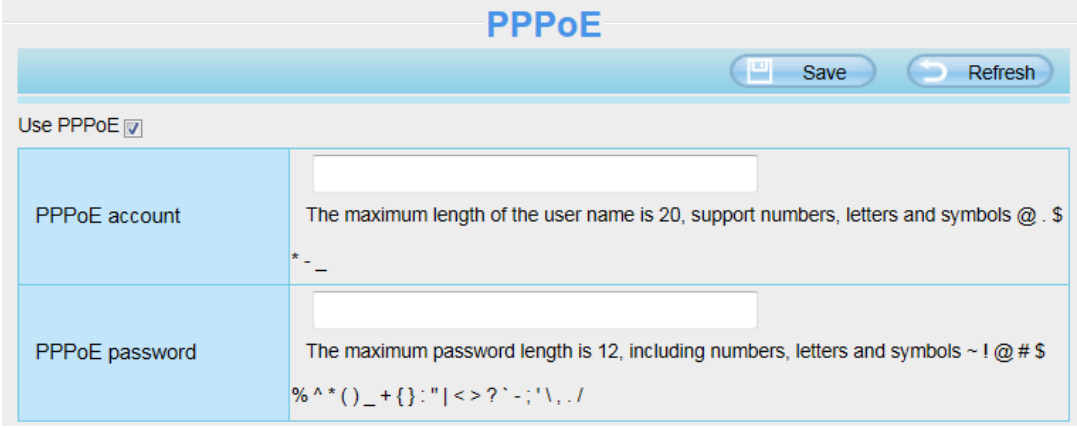

PPPoE
Save
Refresh
Use PPPoE
PPPoE account
The maximum length of the user name is 20, support numbers, letters and symbols @ . $ * - _
PPPoE password
The maximum password length is 12, including numbers, letters and symbols ~ ! @ # $ % ^ * ( ) _ + { } : " | < > ? ` - ; ' \ , . /

Figure 4.24

4.3.4 DDNS

Each camera has embedded a unique DDNS domain name when producing, and you can directly use the domain name, you can also use the third party domain name.

Ip camera domain name

Here take **a33471.myipcamera.org** for example. Go to option of **DDNS** on the **Settings->Network** panel, you can see the domain name.

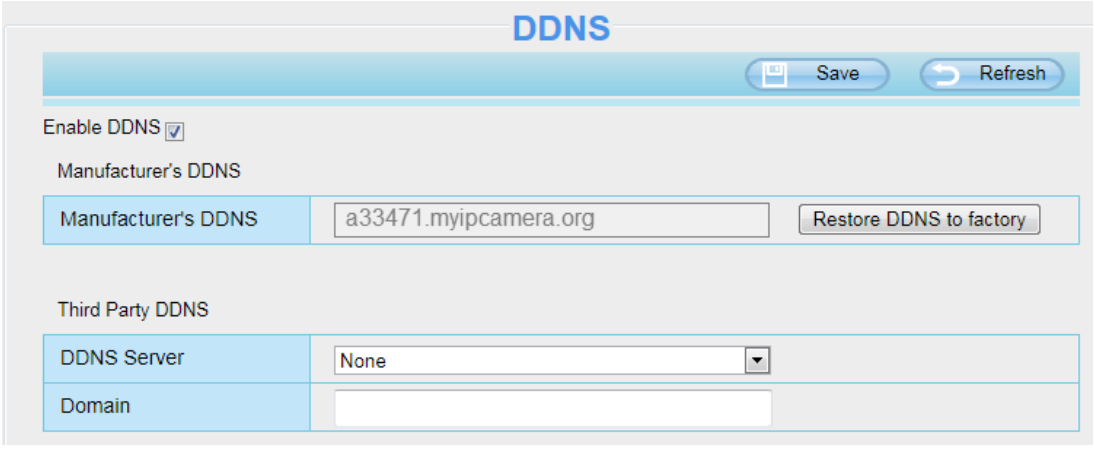


Figure 4.25

Now you can use http:// **Domain name + HTTP Port** to access the camera via internet.
Take hostname **a33471.myipcamera.org** and HTTP Port no. 800 for example, the accessing link of the camera via internet would be http:// a33471.myipcamera.org:8000

Restore DDNS to factory: If you have configured Third Party DDNS successfully, but you want to use Manufacturer's DDNS again , here click this button and start Manufacturer's DDNS Service.

Port forwarding within the router

Example: The camera's LAN IP address is http://192.168.8.100:2000 , Media port no. is 9200.
Firstly, login the router, goes to the menu of **Port Forwarding or Port Trigger** (or named Virtue Server on some brands of router). **Take Linksys brand router as an example, Login the router, and goes to Applications & Gaming->Single Port Forwarding.**
Secondly, Create a new column by LAN IP address & HTTP Port No. of the camera within the router showed as below.

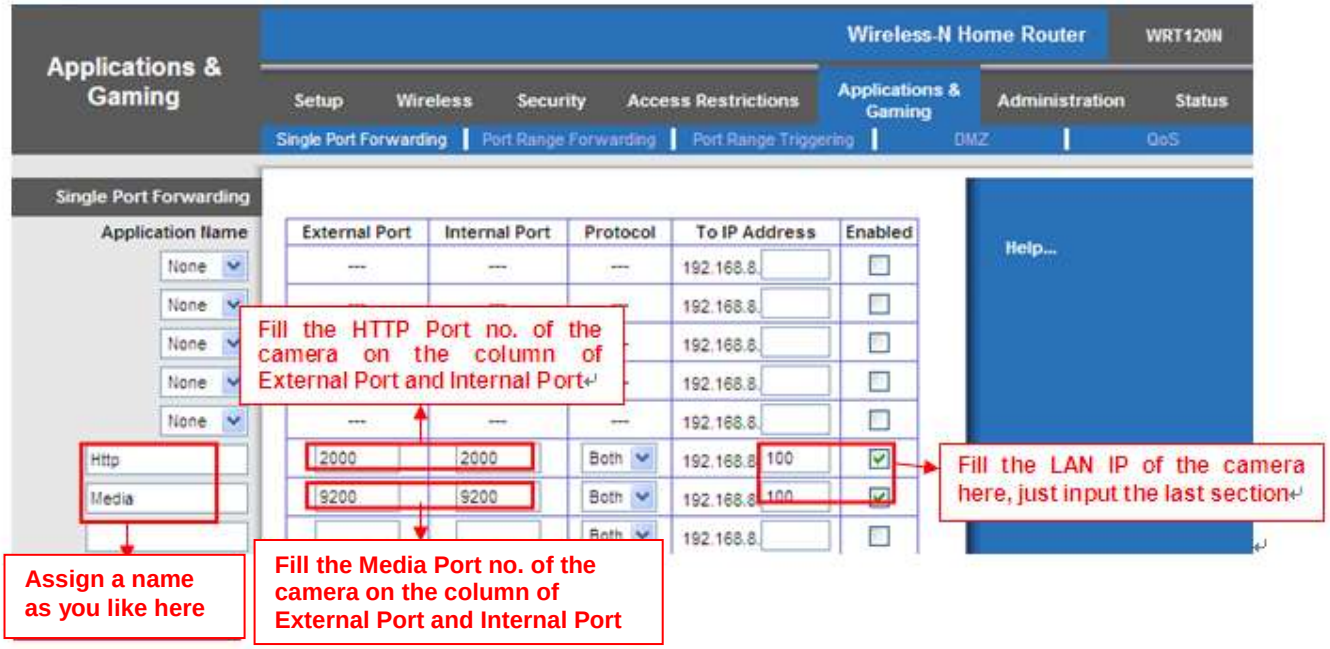


Figure 4.26

③Use domain name to access the camera via internet

After the port forwarding is finished, you can use the **domain name+ http no.** to access the camera via internet. Take hostname **ycxgwp.no-ip.info and http no. 2000** for example, the accessing link of the camera via internet would be **http:// ycxgwp.no-ip.info:2000**

4.3.5 UPnP

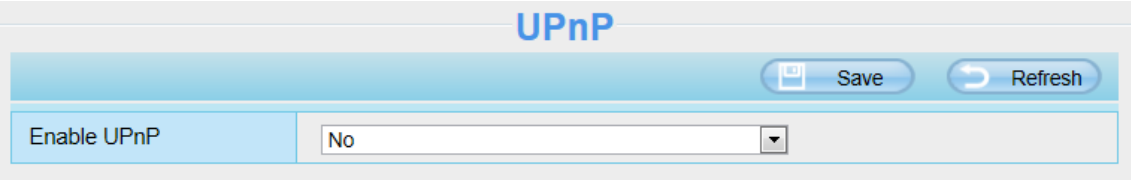


Figure 4.27

The default UPnP status is closed. You can enable UPnP, then the camera's software will be configured for port forwarding. Back to the "Device Status" panel, you can see the UPnP status:

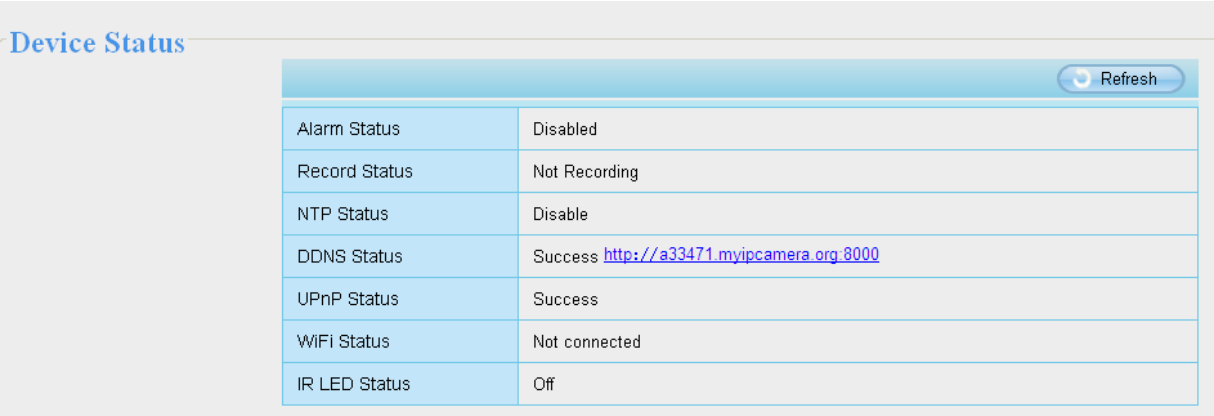


Figure 4.28

The camera's software will be configured for port forwarding. There may be issues with your routers security settings, and sometimes may error. We recommend you configure port forwarding manually on your router.

4.3.6 Port

This camera supports HTTP Port / HTTPS Port/ ONVIF Port. HTTP Port is used to access the camera remotely. If you want to access the camera and view the video.

HTTP port : By default, the HTTP and Media port is set to 88. Also, they can be assigned with another port number between 1 and 65535. But make sure they can not be conflict with other existing ports like 25, 21.

Figure 4.29

Another way to change the HTTP port NO.

Step 1: Open the IP Camera Tool, select the camera you would like to change the port of, right click on the IP address, and click on "Network Configuration", this brings up the network configuration box as shown in Figure 4.35 and 4.36.

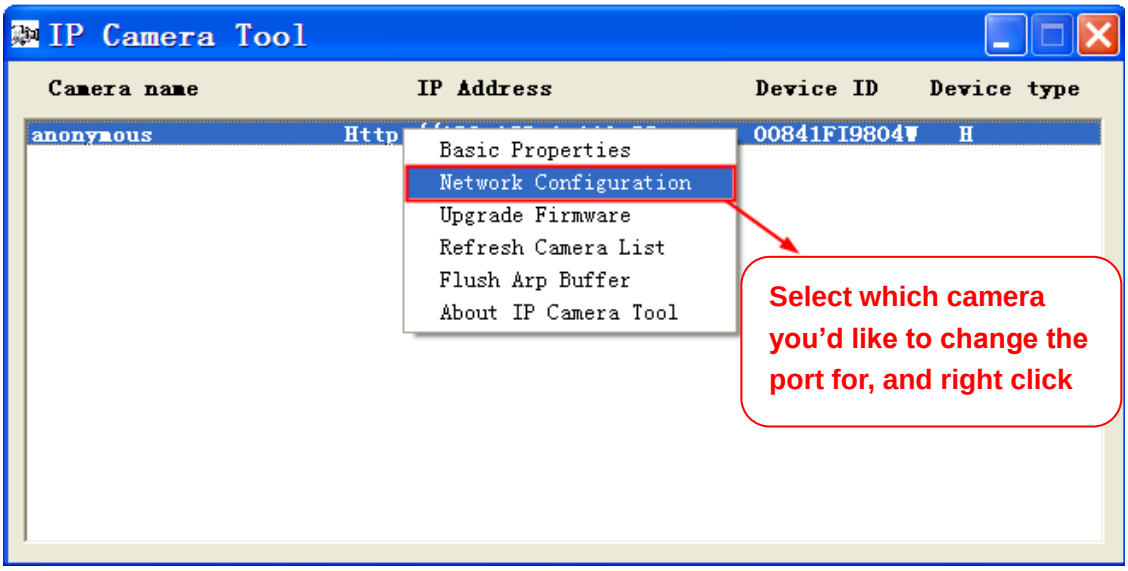


Figure 4.30

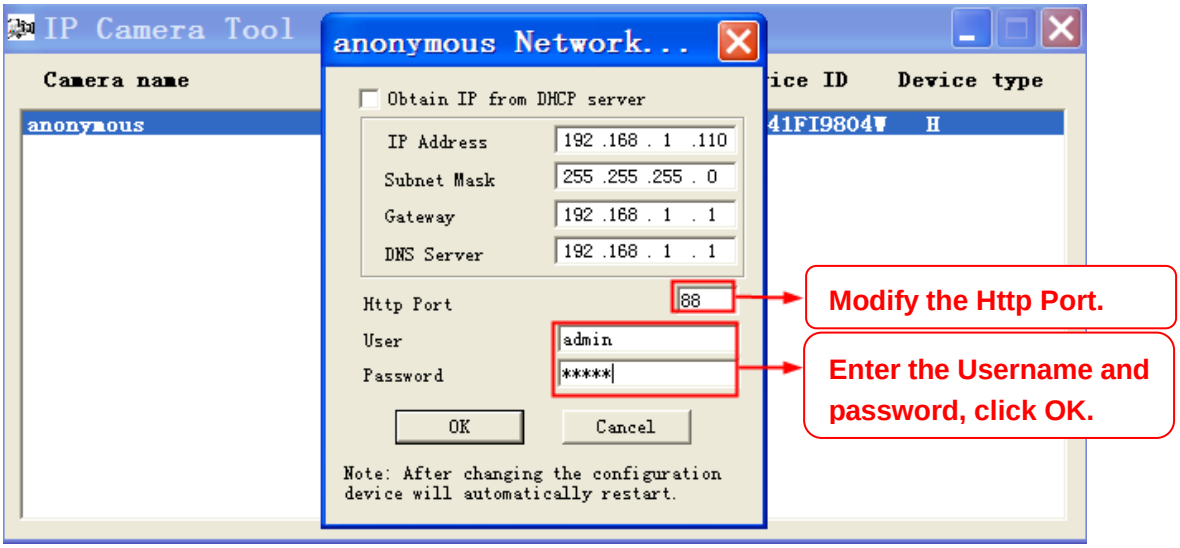


Figure 4.31

Step 2: Enter the username and password of the Administrator (default username is admin with a blank password), and click "OK" to apply changes.

Step 3: Wait around 10 seconds, you'll see that the camera's LAN IP address has changed. In our example it was changed to 2000, so we see http://192.168.1.110:2000 in IP Camera Tool. Also, the LAN IP address is now fixed at a static IP address of http://192.168.1.110:2000 . This IP address will not change even if the camera is powered off and back on, the camera will remain on this LAN IP address. This is very important that a static LAN IP address is set, or you may have problems later with remote access and seeing the camera remotely if the camera loses power and reconnects on a different LAN IP address. Make sure you set a static LAN IP address!

Figure 4.32

If the camera cannot be accessed, please make sure the port forwarding is successful.

HTTPS port: The default port is 443. You can use the url to access the camera: **https:// IP + HTTPS port.**

4.3.7 Mail Settings

If you want the camera to send emails when motion has been detected, here Mail will need to be configured.

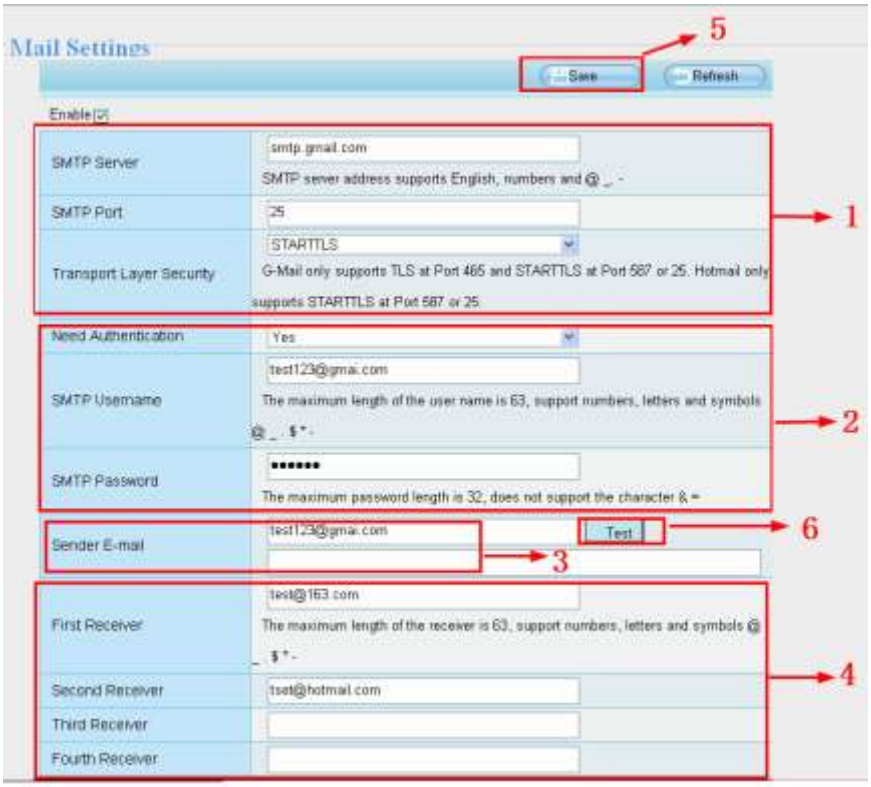


Figure 4.33

1----- SMTP Server/ Port /Transport Layer Security Enter SMTP server for sender. **SMTP** port is usually set as 25. Some SMTP servers have their own port, such as 587 or 465, and Transport Layer Security usually is None. If you use Gmail, Transport Layer Security must be set to TLS or STARTTLS and SMTP Port must be set to 465 or 25 or 587, which port you choose should be decided by which Transport Layer Security you select.

2-----SMTP Username/ password ID account and password of the sender email address

3----- Sender E-mail Mailbox for sender must support SMTP

4----- Receiver Mailbox for receiver need not support SMTP,you can set 4 receivers

5---- Save Click Save to take effect

6---- Test Click Test to see if Mail has been successfully configured.

Click **Test** to see if Mail has been successfully configured.

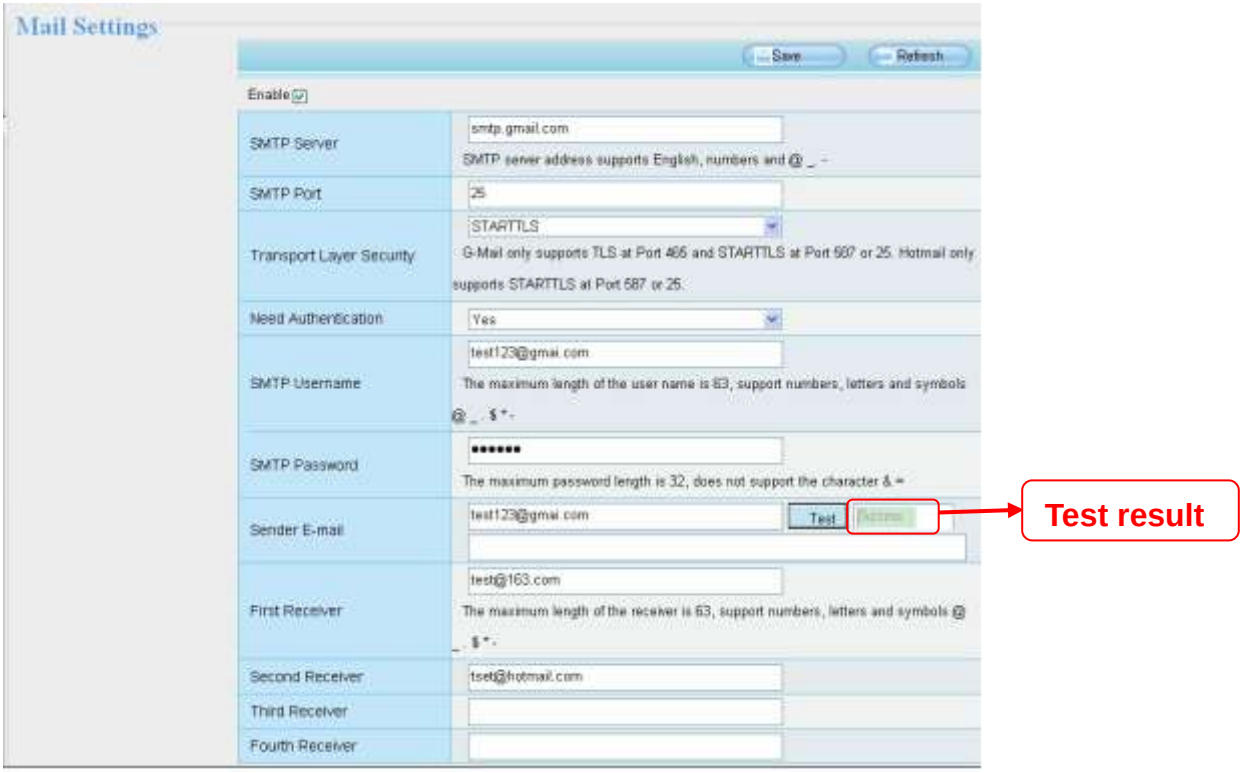

Mail Settings
Save
Refresh
Enable
SMTP Server
smtp.gmail.com
SMTP server address supports English, numbers and @ _ -
SMTP Port
25
Transport Layer Security
STARTTLS
G-Mail only supports TLS at Port 465 and STARTTLS at Port 587 or 25. Hotmail only supports STARTTLS at Port 587 or 25.
Need Authentication
Yes
SMTP Username
test123@gmai.com
The maximum length of the user name is 63, support numbers, letters and symbols @ _ . $ * -
SMTP Password
The maximum password length is 32, does not support the character & =
Sender E-mail
test123@gmai.com
Test
First Receiver
test@163.com
The maximum length of the receiver is 63, support numbers, letters and symbols @ _ . $ * -
Second Receiver
tset@hotmail.com
Third Receiver
Fourth Receiver
Test result

Figure 4.34

If the test success, you can see the **Success** behind the Test, at the same time the receivers will receive a test mail.

If the test fails with one of the following errors after clicking **Test, verify** that the information you entered is correct and again select **Test** .

1) Cannot connect to the server
2) Network Error. Please try later
3) Server Error
4) Incorrect user or password
5) The sender is denied by the server. Maybe the server need to authenticate the user, please check it and try again
6) The receiver is denied by the server. Maybe because of the anti-spam privacy of the server
7) The message is denied by the server. Maybe because of the anti-spam privacy of the server
8) The server does not support the authentication mode used by the device

4.3.8 FTP Settings

If you want to upload record files and images to your FTP server，you can set **FTP Settings.**

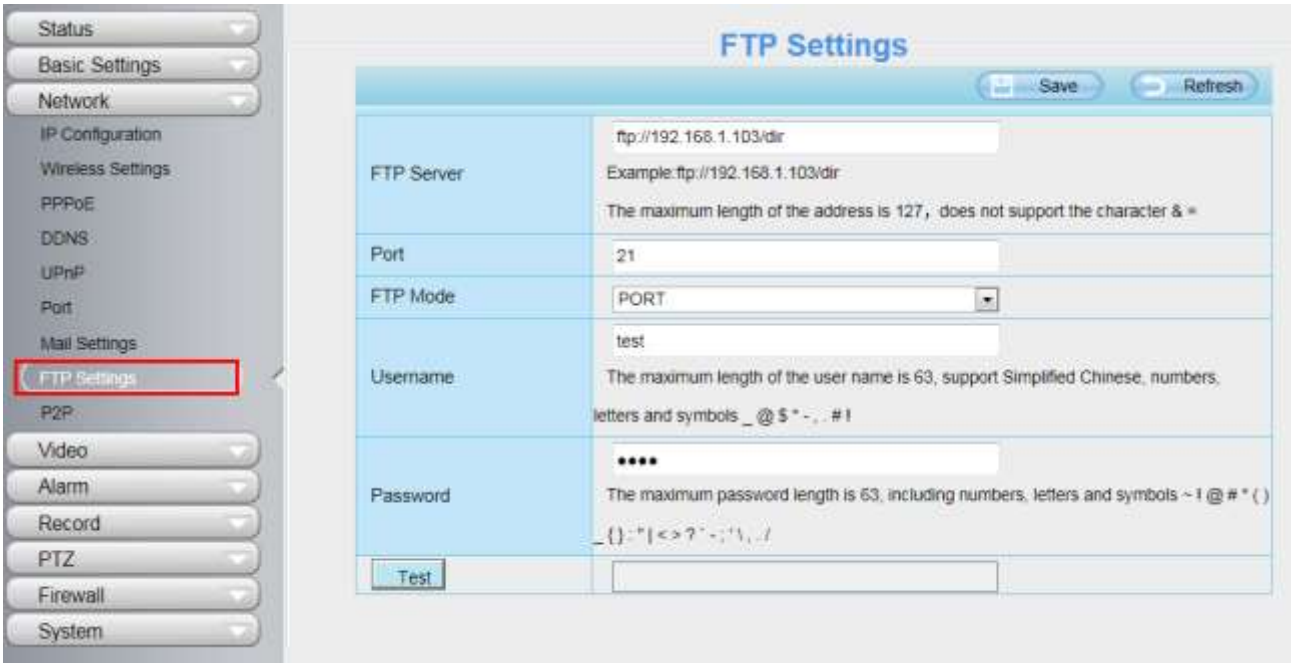


Figure 4.35

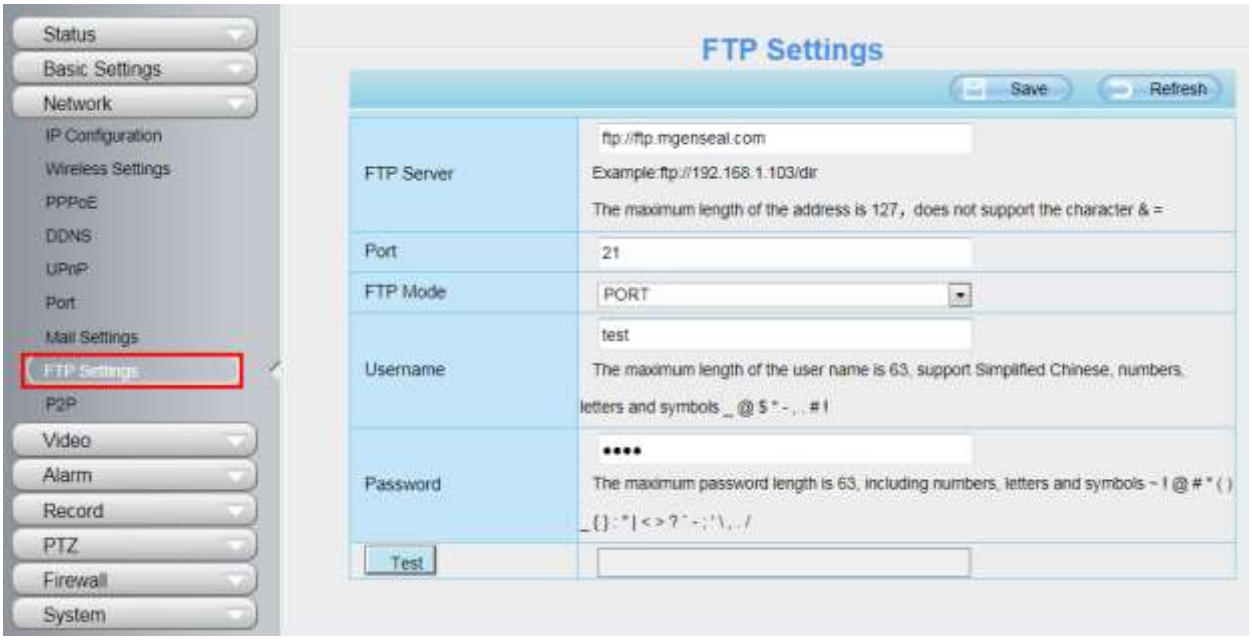


Figure 4.36

FTP server: If your FTP server is located on the LAN.

If you have an FTP server which you can access on the internet.

Port: Default is port 21. If changed, external FTP client program must change the server connection port accordingly.

FTP Mode: Here supports two modes: PORT and PASV.

Username/password: The FTP account and password.

Click **Save** to take effect.

Click **Test** to see if FTP has been successfully configured.

4.3.9 P2P

Access the IP Camera by Smart Phone (Android or iOS operating system)
First of all, you need to open the P2P function of the IP Camera at “Settings-->Network-->P2P”.

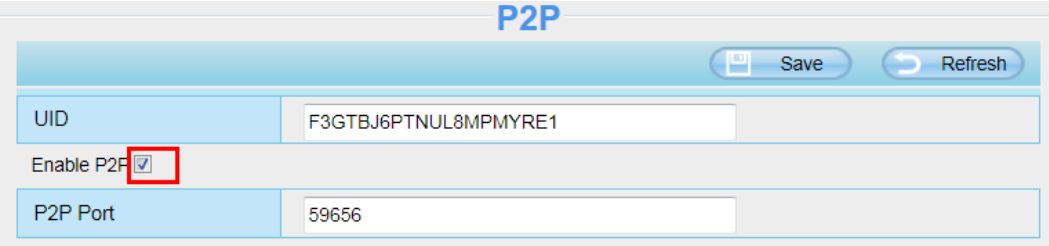


Figure 4.37

Search and install **IPCam Viewer** on Google Play for Android devices, search and install **IPCam_Viewer** on APP Store for iOS devices.
If you want to know more details of the iOS APP or Android APP, see the *iOS App User Manual* or *Android APP User Manual*.

4.4 Video

This section allows you to configure Video stream settings, On screen display and Snapshot settings.

4.4.1 Video Settings

There are two ways to set the stream video settings. They are main stream video settings and sub stream video settings.

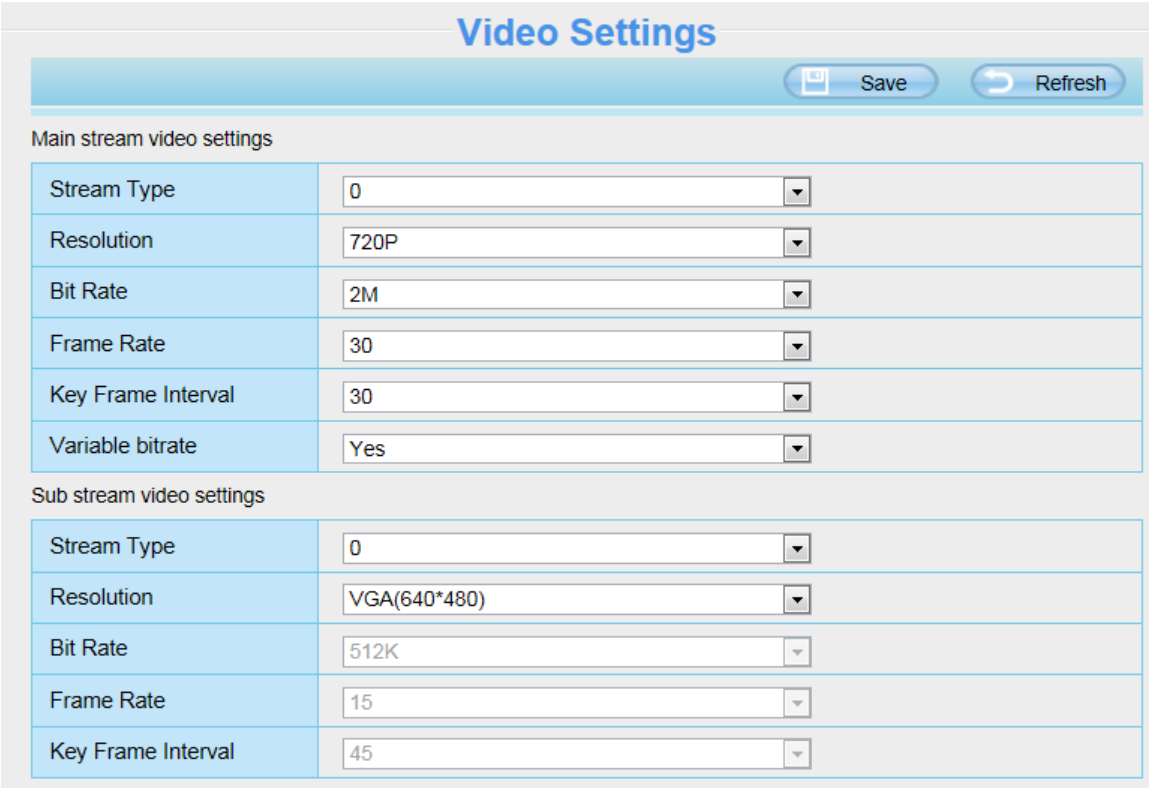


Figure 4.38

Stream type: There are four types to identify different streams you have set.

Resolution: The camera supports multiple types, For example: 960P, 720P, VGA, QVGA. The higher the resolution is, the clearer video will become. But the code flux will become larger too, and it will take up more bandwidth.

Bit rate: Generally speaking, the larger the bit rate is, the clearer video will become. Lower bandwidth way require a lower bitrate for optimal video performance.

Frame rate: Note that a larger frame size takes up more bandwidth. When the video format is 50Hz, the maximum frame rate is 25 fps. When the video format is 60Hz, the maximum frame rate is 30 fps. You should lower frame rate when the bandwidth is limited. Normally, when the frame rate above 15, you can achieve fluid video.

Key Frame Interval: The time between last key frame and next key frame. The shorter the duration, the more likely you will get a better video quality, but at the cost of higher network bandwidth consumption.

4.4.2 On Screen Display

This page is used to add time-stamp and device name on the video.

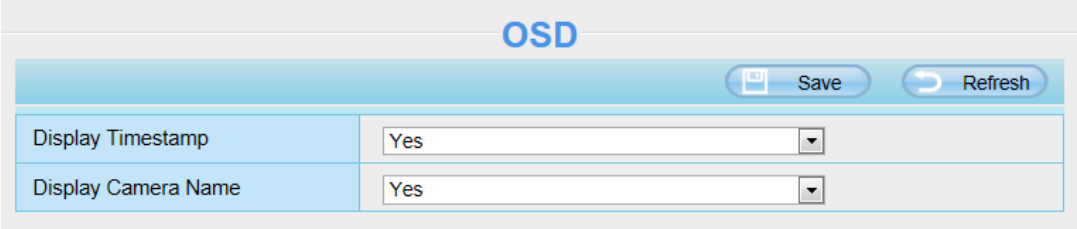


Figure 4.39

Display Timestamp: There are two options: Yes or NO. Select Yes and you can see the system date on the video.

Display Camera Name: There are two options: Yes or NO. Select Yes and you can see the device name on the video.

4.4.3 Privacy Zone

This page is used to set some mask as privacy zone on the video.

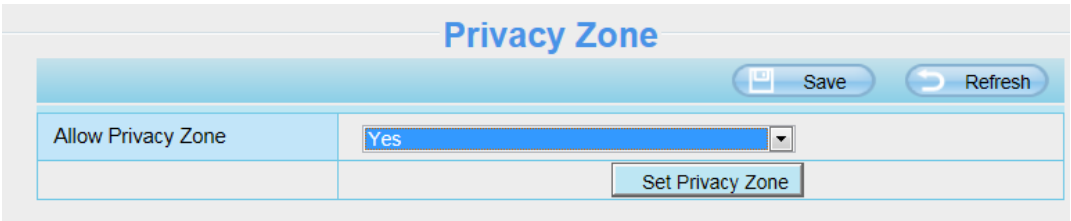


Figure 4.40

Allow On Screen Display Mask: There are two options: Yes or NO. Select Yes, then click “Set Privacy Zone” and draw a privacy area on the video, the privacy area will be black on the video.

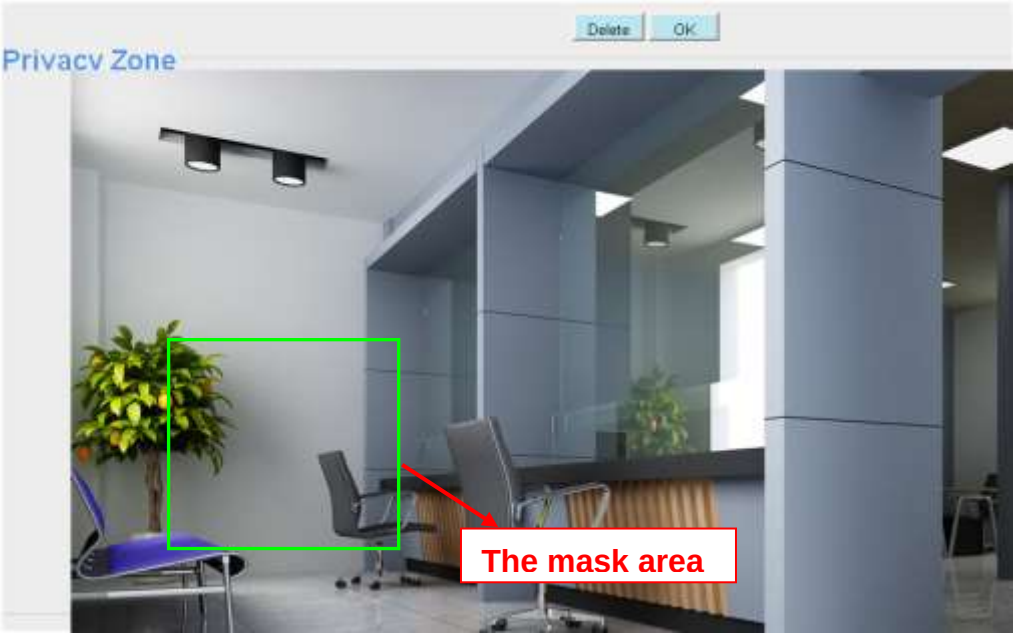


Figure 4.41

Click **OK** button and return to the page, click Save to take effect.
Back to the surveillance window, you can see the mask area as the following picture:

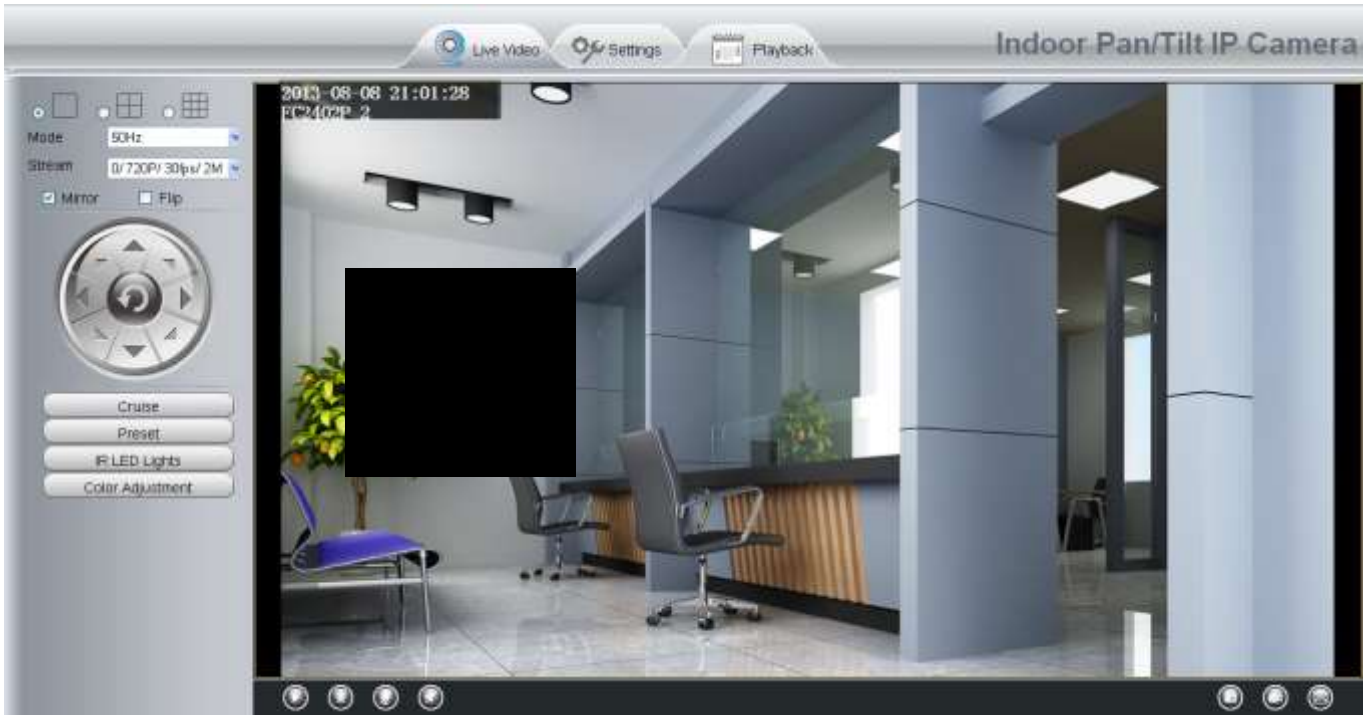


Figure 4.42

4.4.4 Snapshot Settings

On this page you can set the snapshot pictures' image quality and the storage path.

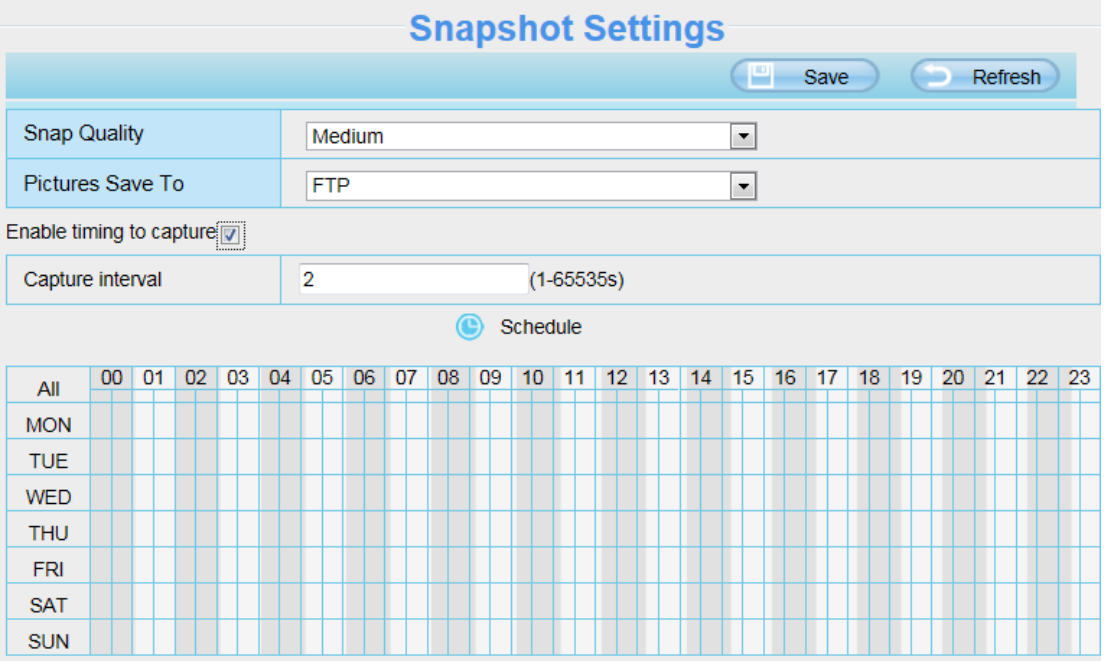


Figure 4.43

Manual snap Quality: Low, Middle and High. The higher the quality, the picture will be clearer.

Alarm Pictures Save To: FTP or SD Card. If you have done FTP and Alarm settings, when alarming, the camera will snap pictures to the FTP automatically. If you have selected a SD Card as the save path, make sure the camera has the SD card inserted.

Enable timing to capture

To enable capture interval, follow the steps below:

1 Select **Enable timing to capture**

2 Capture interval: The interval time between two captures.

3 Select the capture time

- Capture anytime

  Click the black button up the MON, you will see all time range turn red. When something moving in the detection area at anytime, the camera will capture.
- Specify an capture schedule

  Click the week day words, the corresponding column will be selected. For example, click TUE, the all column of TUE turns to red, that means during Tuesday whole day, the camera will capture.
- Press the left mouse and drag it on the time boxes, you can select the serial area,

4 Click **Save** button to take effect.

4.4.5 IR LED Schedule

On this page you can set the schedule time for switching IR LED lights. When parameter Mode is set to the **Schedule** on the **Live Video** window, at these schedule time, the IR LED lights will be turned off.

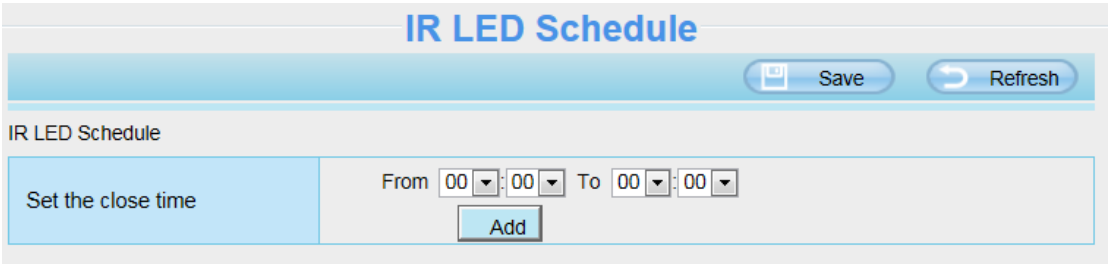


Figure 4.44

4.5 Alarm

IP Camera supports **Motion Detection Alarm**, when the motion has been detected, it will send emails or upload images to FTP.

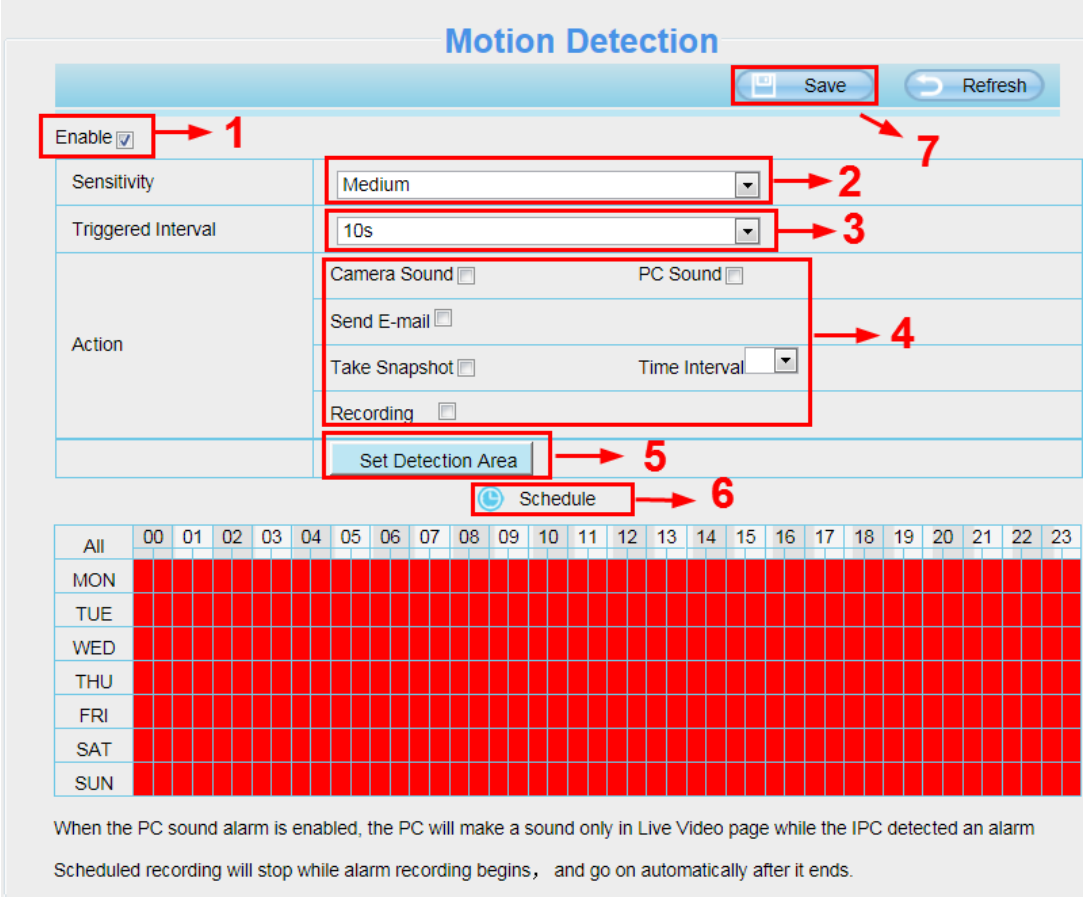


Figure 4.45

To enable motion detection, follow the steps below:

Step 01: Enable Motion detection

Step 02: Sensitivity---- Supports five modes: Lowest, Lower, Low, Medium and High. The higher the sensitivity, the easier the camera will be alarmed.

Step 03: Trigger interval--- The interval time between two motion detections. Here supports

5s/6s/7s/8s/9s/10s/11s/12s/13s/14s/15s. Select one interval time.

Step 04: Select the alarm indicator

When the motion has been detected, the alarm status will turn to Detect alarm.

Figure 4.46

There are four alarm indicators:

A Camera Sound and **PC Sound**
If the camera has connected with a speaker or other audio output device, if you select Camera Sound or PC Sound, when the motion has been detected, the people around the camera will hear beep alarm sound.

B Send E-mail
If you want to receive alarm emails when motion is detected, you must select Send E-mail and set Mail Settings first.

C Take Snapshot
If you select this checkbox, when the motion has been detected, the camera will snap the live view window as a still picture and load it to the FTP. Make sure you have set FTP and set FTP as the storage path in Video->Snapshot settings panel.

Capture interval: The interval time between two pictures.

D Recording(except for FC1403P)
If you select this checkbox, when the motion has been detected, the camera will record automatically and store the record files to the SD Card. Make sure the camera has inserted SD card and you have set the SD card as the Alarm record files storage path, please go to **Record—> Storage location** page to verify this settings.
The default alarm record time is 30s and pre-alarm record time is 5s, please go to **Record—> Alarm Record** page and change the alarm time settings.

Step 05: Set detect area

Click set detect area a window will pop up, then you can draw the detection area. Click **OK** button after settings. When something moves in the detection area, the camera will alarm.

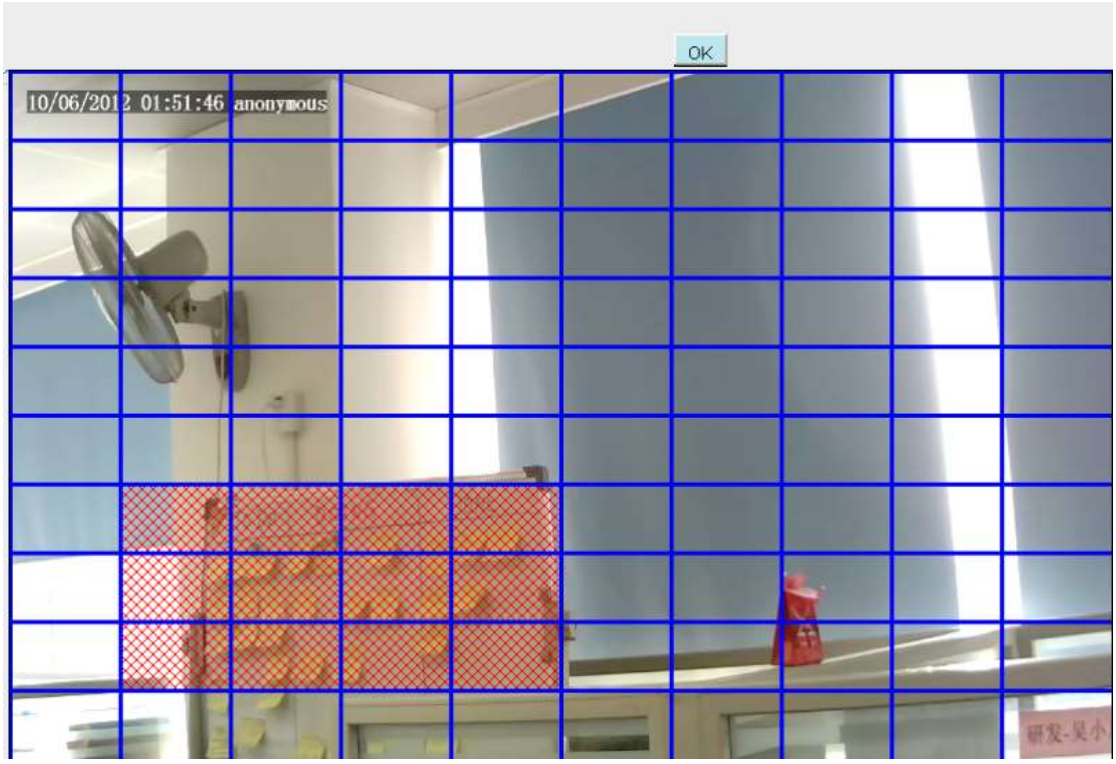


Figure 4.47

Step 06: Alarm Schedule

①Alarm anytime when motion is detected

Click the black button up the MON, you will see all time range turn red. When something moving in the detection area at anytime, the camera will alarm.

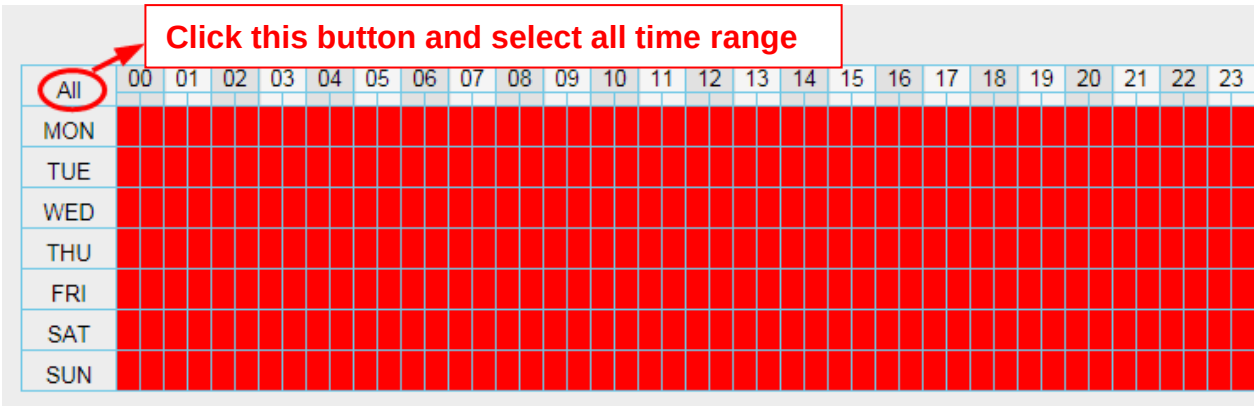

Click this button and select all time range
All
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
MON
TUE
WED
THU
FRI
SAT
SUN

Figure 4.48

②Specify an alarm schedule

Click the week day words, the corresponding column will be selected. For example, click TUE, the all column of TUE turns to red, that means during Tuesday whole day, when something moving in the detection area, the camera will alarm.

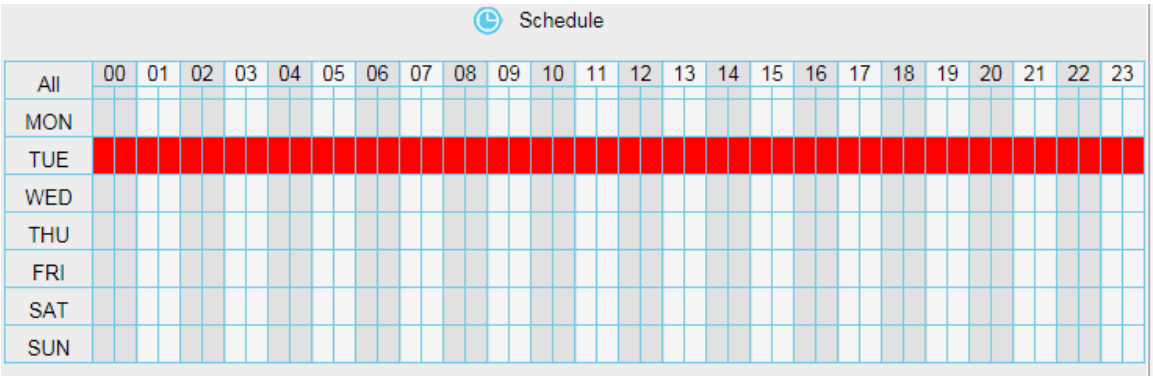


Figure 4.49

③Press the left mouse and drag it on the time boxes, you can select the serial area.

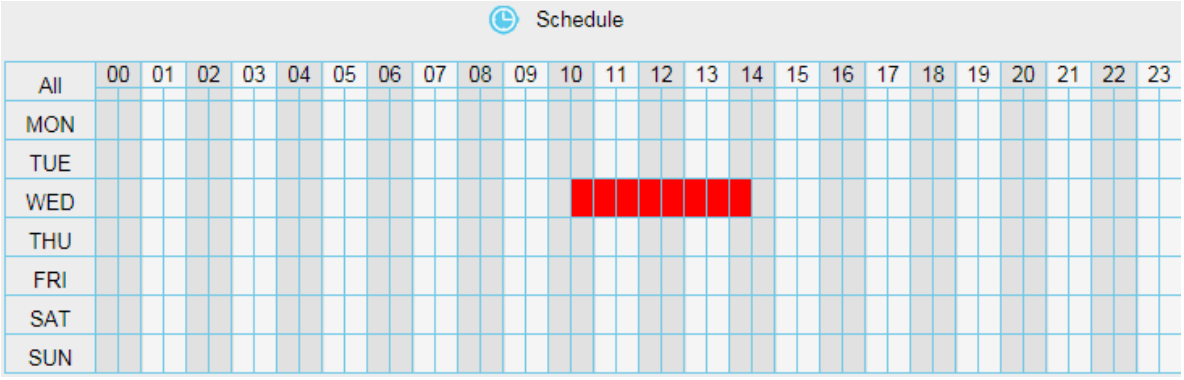


Figure 4.50

Step 07: Click Save button to take effect.

When the motion has been detected during the detection time in the detection area, the camera will alarm and adopt the corresponding alarm indicators.

NOTE: You must set the detection area and detection schedule, or else there is no alarm anywhere and anytime.

4.6 Record

This section will allow you to change the record files storage path and the record time.

4.6.1 Storage Location

On this page you can change the alarm and manually recording storage path.

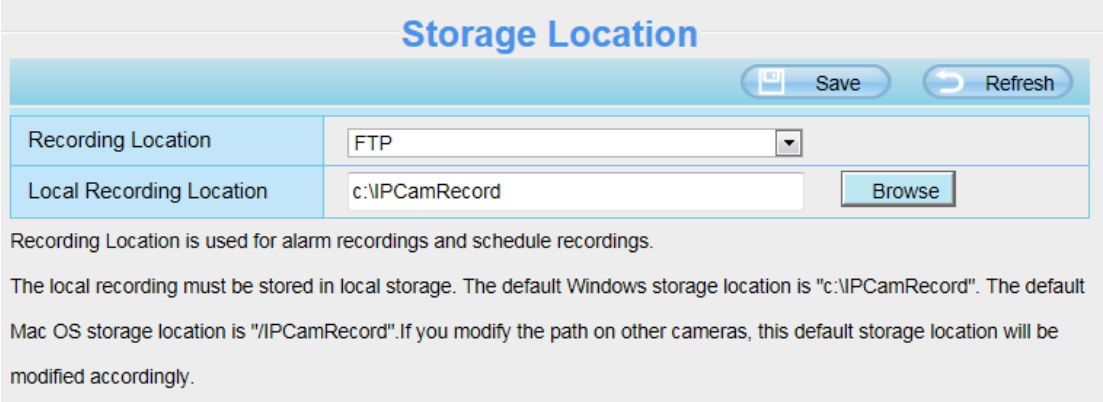

Storage Location
Save
Refresh
Recording Location
FTP
Local Recording Location
c:\IPCamRecord
Browse
Recording Location is used for alarm recordings and schedule recordings.
The local recording must be stored in local storage. The default Windows storage location is "c:\IPCamRecord". The default Mac OS storage location is "/IPCamRecord".If you modify the path on other cameras, this default storage location will be modified accordingly.

Figure 4.51

Recording Location: SD card or FTP. When the camera alarmed, it will store the alarm files to the SD card or FTP. Make sure the camera has been inserted the SD card. On this page, you can see the available space of the SD card.

Local Recording Location: For Windows OS, the location recording path is c:/ IPCamRecord, you can change another one. For MAC OS, the manual recording path is: / IPCamRecord.

4.6.2 Alarm Recording

On this page you can change the Pre-record time and Alarm record time.

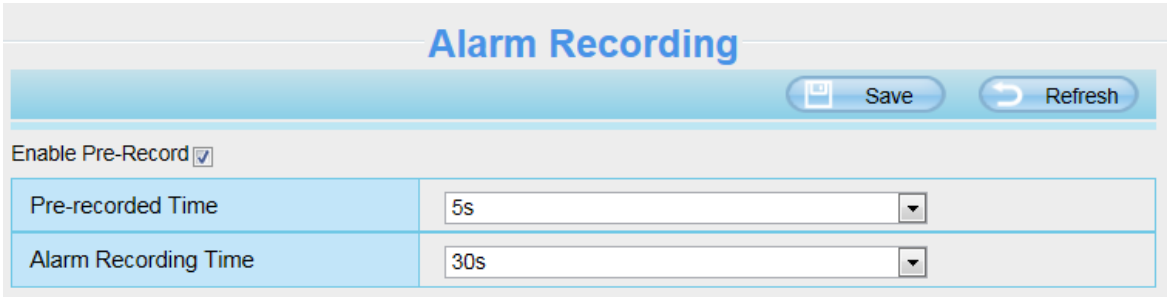
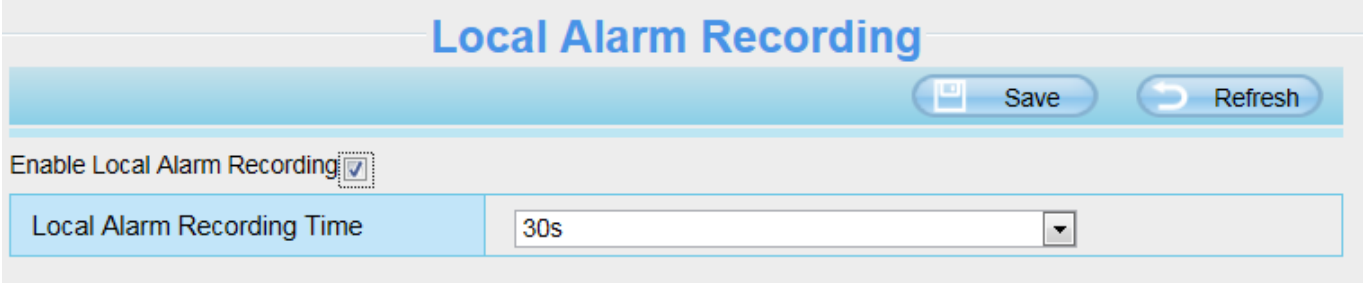


Figure 4.52

The default Pre-recorded time is 5s and the alarm record time is 30s, you can change another time, click Save button to take effect.

4.6.3 Local Alarm Recording

On this page you can enable the local alarm record and Local Alarm record time.



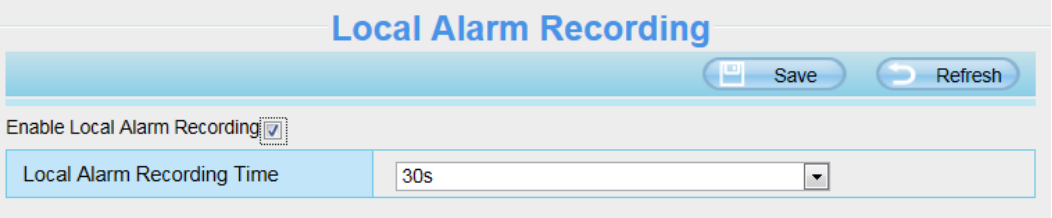


Figure 4.53

4.6.4 Scheduled Recording

On this page you can configure the schedule record.

When the parameter **Recording Location** is set **SD Card** on the **Storage Location** page, you can configure parameters as shown in follow figure.

Figure 4.54

When the parameter **Recording Location** is set **FTP** on the **Storage Location** page, you can configure parameters as shown in follow figure.

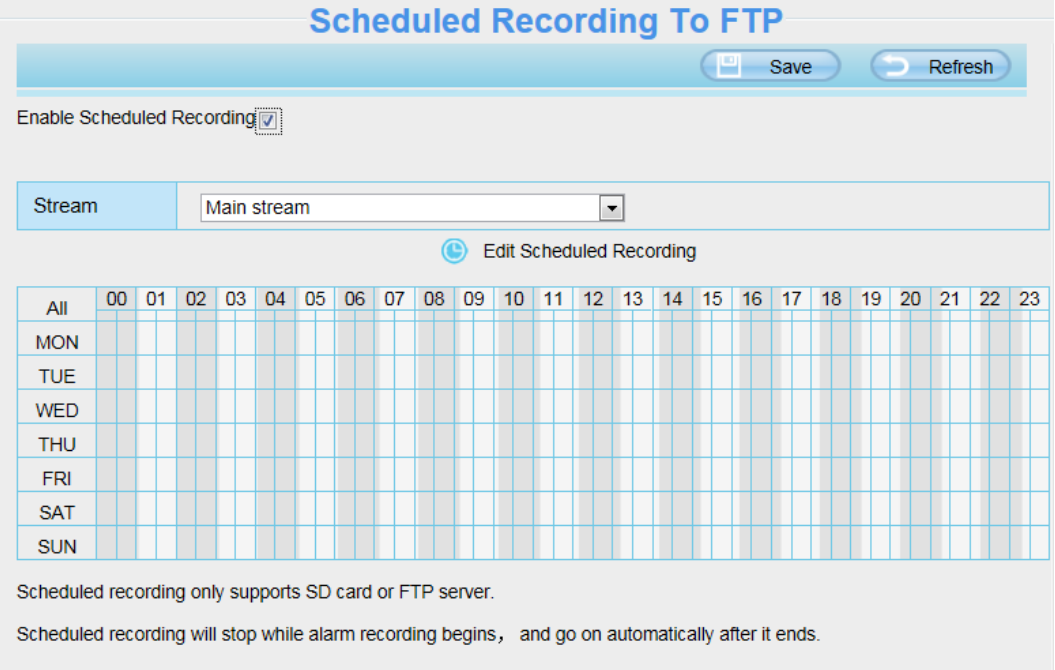


Figure 4.55

Click **Save** button to take effect.

4.6.5 SD Card Management

This camera supports SD Cards up to 32G.

When you insert the SD card while the camera is on, please reboot the camera.
Go to the **Settings→Device Status→Device Status** page, you can see the SD card status.

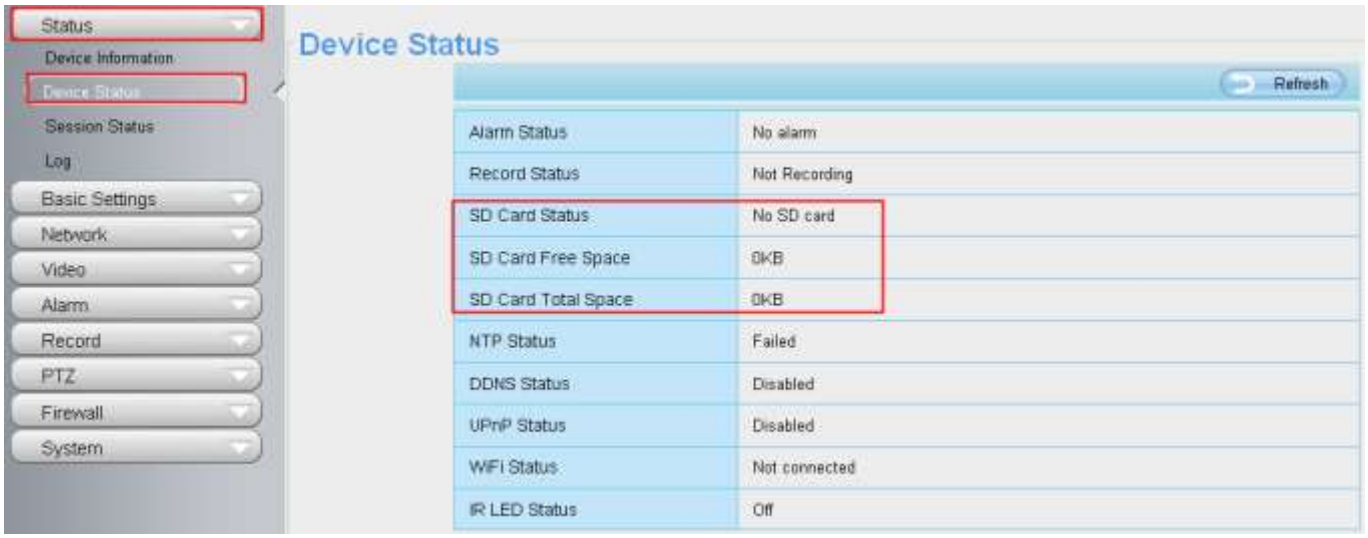


Figure 4.56

The default storage path of alarm record files is SD card, when the available size of SD card is less than 256M, the old record files will be deleted automatically.

4.7 PTZ

This page will allow you to change the pan/tilt speed and do cruise tracks settings.

4.7.1 Pan/Tilt Speed

There are five Pt speed types: very fast, fast, normal, slow and very slowly. Select the desired PTZ speed type and click save button .

Figure 4.57

4.7.2 Cruise Settings

This section explains how to add/ delete one cruise track.

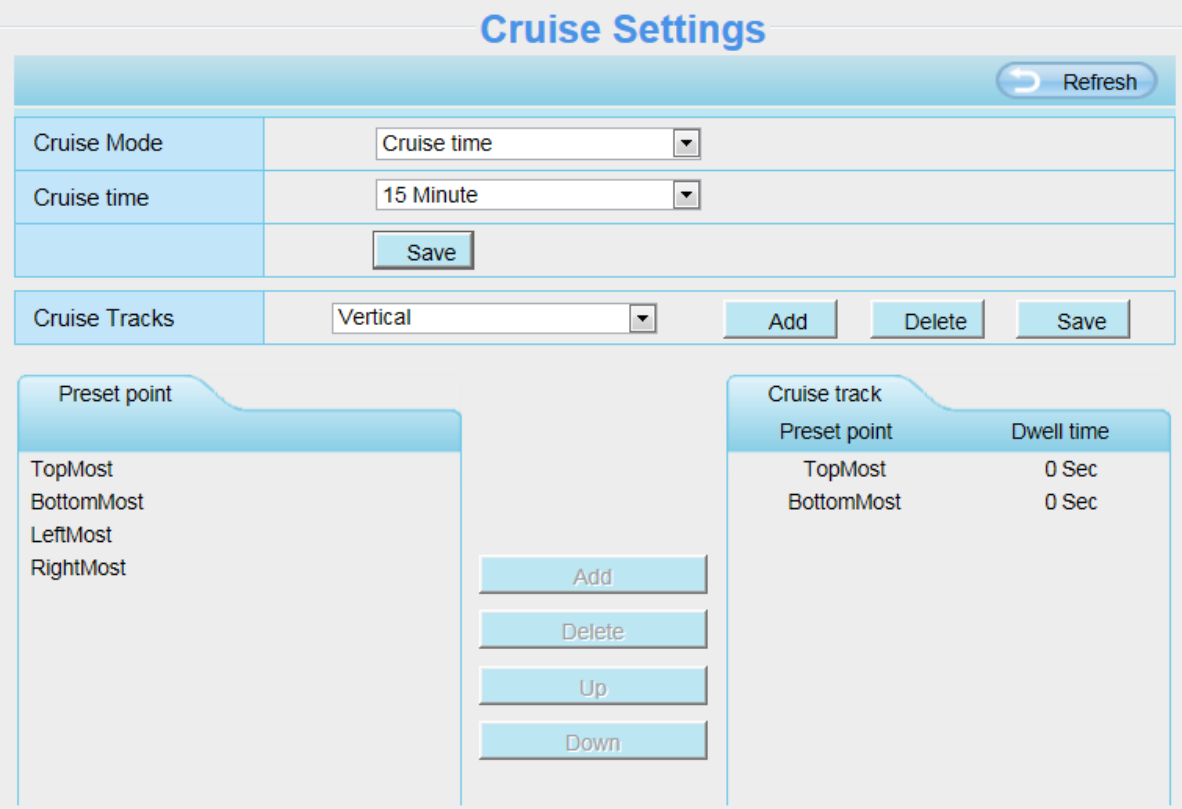


Figure 4.58

Setting the Cruise Mode

There are two cruise mode: Cruise time and Cruise Loops.

Cruise time: Select **Cruise time** from **Cruise Mode** drop-down, then you can set the **Cruise time** of the

camera.

Cruise Loops:Select **Cruise Loops** from **Cruise Mode** drop-down, you can set the **Cruise Loops** of the camera.

Click **Save** to take effect.

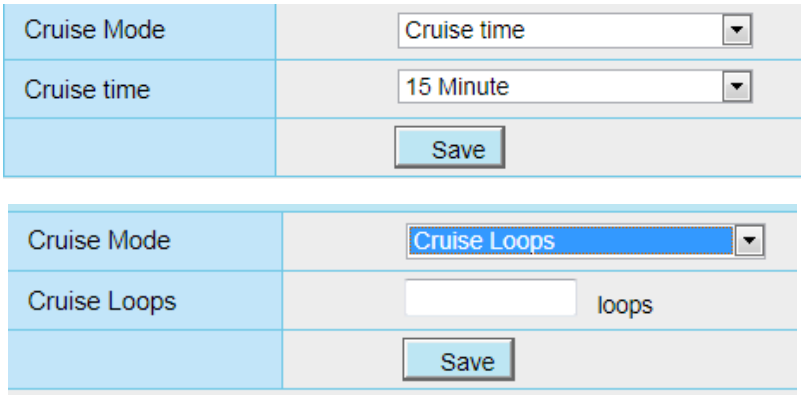


Figure 4.59

Manage the Cruise Track

There are two default cruise tracks: Vertical and Horizontal.

Vertical: The camera will rotate from up to down

Horizontal: The camera will rotate form left to right.

Add: Add one cruise track, then click save button.

Delete: Select one cruise track and delete it.

Save: After you modify the **Dwell time**, you should click **Save** button to take effect.

Example

How to do add cruise tracks ?

Firstly, Click Add button and enter a descriptive name to identify the cruise track.

Secondly: On the lower left of the page, you can see all preset points you have added. Select one preset point and click Add button, you can see the preset point has been added to the cruise track on the cruise track page. You need to add two or more preset points to the cruise track.

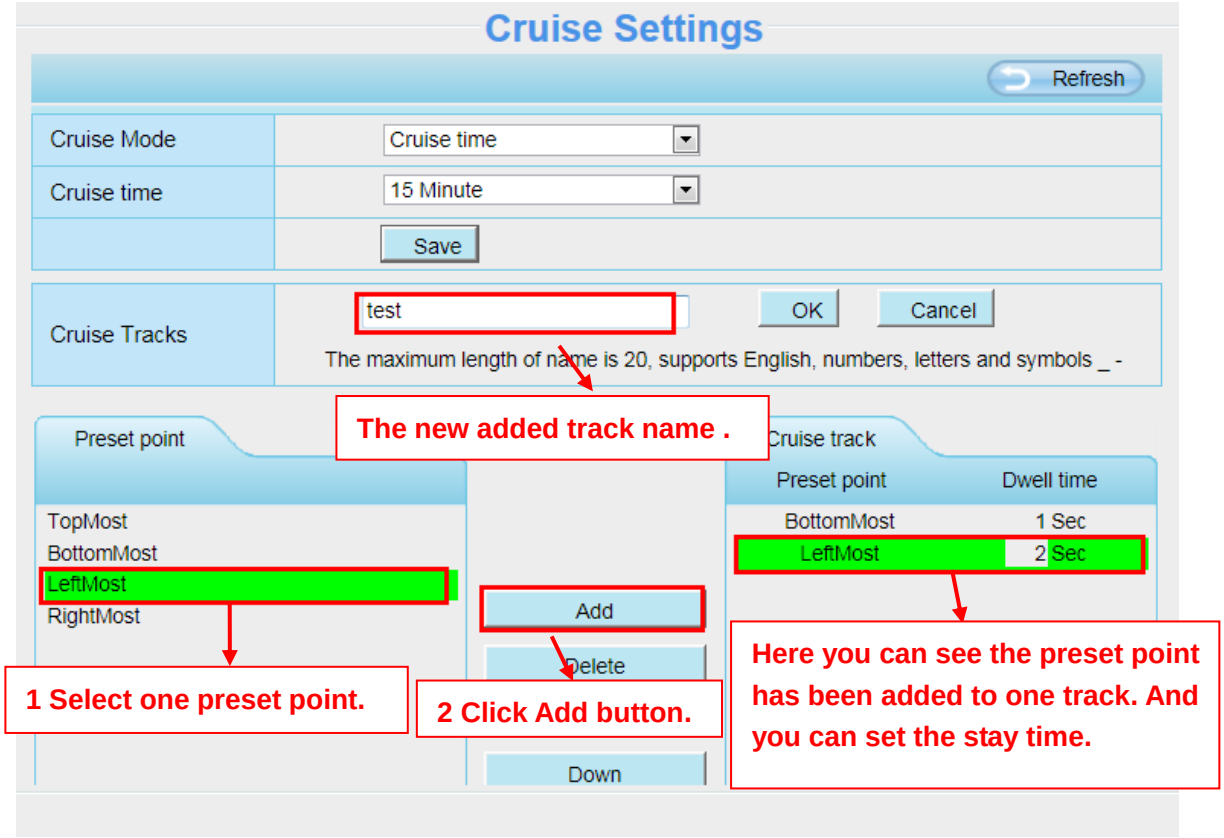


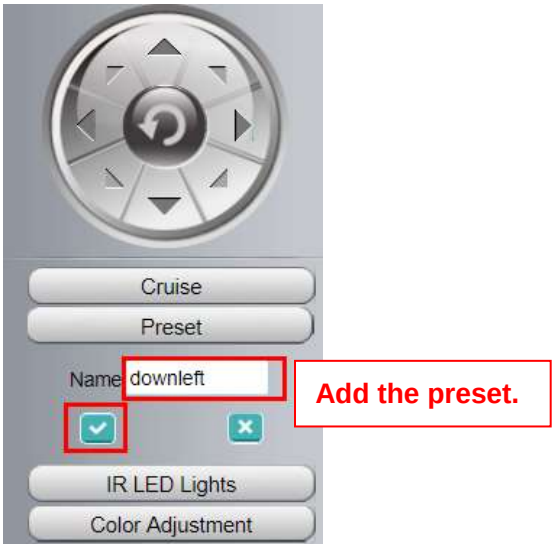
Figure 4.60

Thirdly: Click **OK** button and the cruise track will take effect.

You can add other cruise track as the same method.

For example: I have added three preset points to the “track 1”, that means : When I select the “track 1” on the surveillance window, the camera moves as the following track: upright then Right Most last downleft.

You can add preset on the left of the surveillance window.



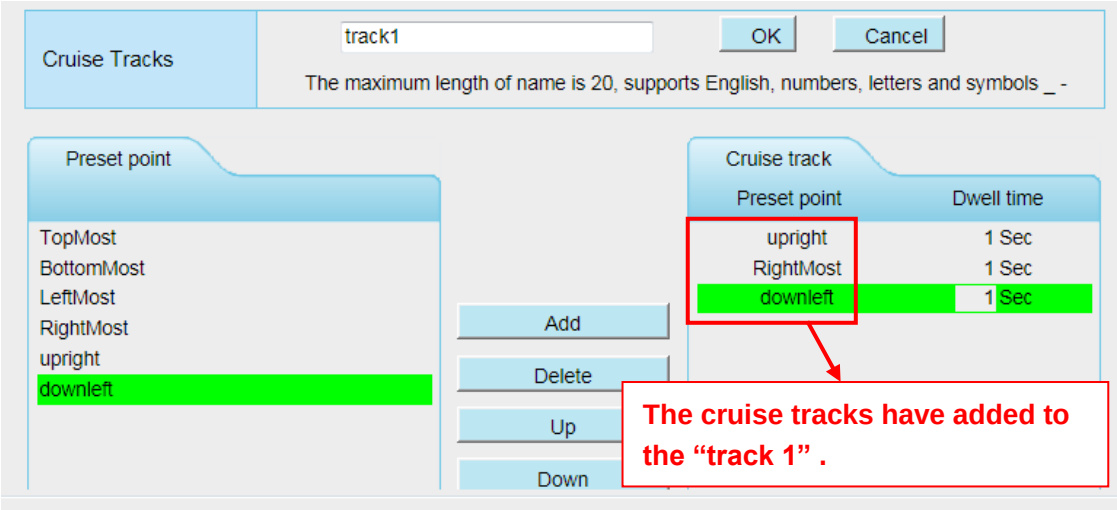


Figure 4.61

After adding the cruise track, return to the surveillance window, click Cruise, here you can see all cruise tracks you have added.

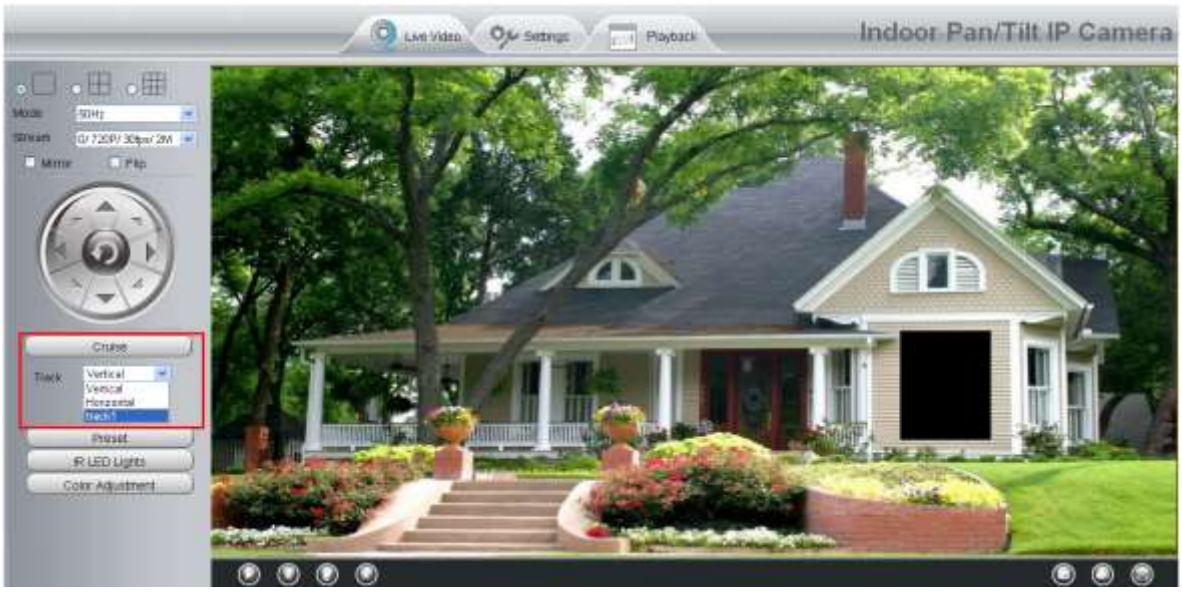


Figure 4.62

There are other buttons between the Preset points and Cruise track, you can use these buttons to adjust the order of preset points or add/delete one preset points in one cruise track,

Figure 4.63

Add: Select one preset points and add it to the selected cruise track.
Delete: Select one preset points you have added to one cruise track, click delete.
Move up/ down: Select one cruise track, adjust the order of preset points in one cruise track.

Attention: TO prevent overheating of the motor, a long patrol time is not advised.

4.7.3 Start-Up Options

This section will allow you to set the stop position after the camera reboots.
It supports three modes: Disable Start-Up, Go To Home Position and Go To Preset Position.

Disable Start-Up: When rebooting, the camera will not pan / tilt.
Go To Home Position: When rebooting, the camera will pa Providing Central Management Software to manage or monitor multi-cameras n / tilt and stops at center.
Go To Preset Position: Select one preset position and save it. When rebooting, the camera will pan/ tilt and stops at the preset position you have set.

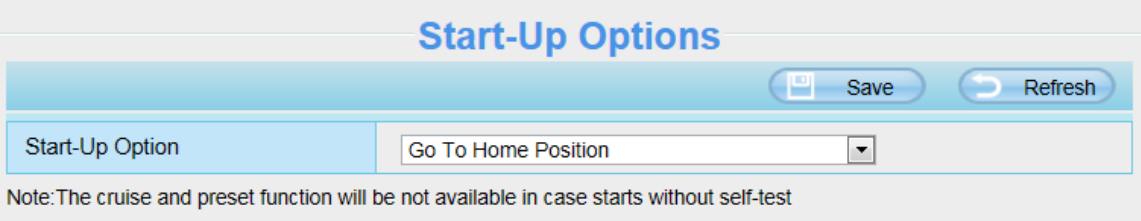

Start-Up Options
Save
Refresh
Start-Up Option
Go To Home Position
Note:The cruise and preset function will be not available in case starts without self-test

Figure 4.64

4.8 Firewall

This section explains how to control the access permission by checking the client PC's IP addresses. It is composed of the following columns: **Block access from these IP addresses** and **Only allow access from these IP addresses**.

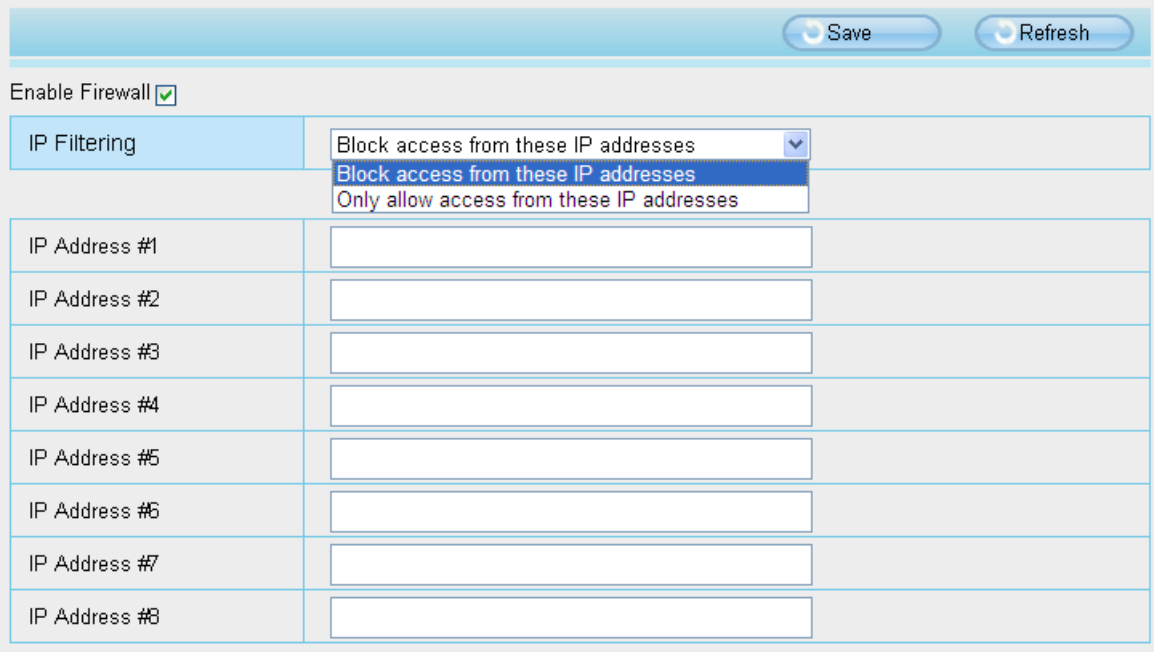


Figure 4.65

Enable firewall, If you select Only allow access from these IP addresses and fill in 8 IP addresses at most, only those clients whose IP addresses listed in the **Only allow access from these IP addresses** can access the Network Camera. If you select **Block access from these IP addresses,** only those clients whose IP addresses are in the IP list cannot access the Network Camera.

Click **Save**.

4.9 System

In this panel, you can backup/restore your camera settings, upgrade the firmware to the latest version, restore the camera to default settings and reboot the device.

4.9.1 Back-up& Restore

Click **Backup** to save all the parameters you have set. These parameters will be stored in a bin file for future use.

Click Browse and select the parameters file you have stored, then click Submit to restore the restore the parameters.

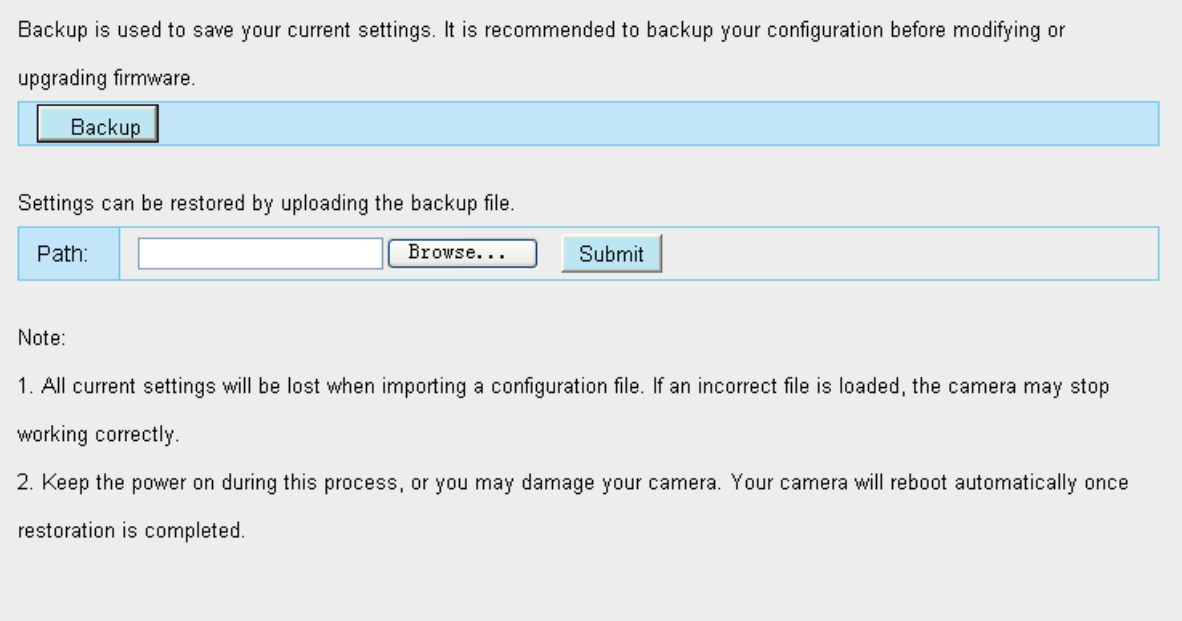

Backup is used to save your current settings. It is recommended to backup your configuration before modifying or upgrading firmware.
Backup
Settings can be restored by uploading the backup file.
Path:
Browse...
Submit
Note:
1. All current settings will be lost when importing a configuration file. If an incorrect file is loaded, the camera may stop working correctly.
2. Keep the power on during this process, or you may damage your camera. Your camera will reboot automatically once restoration is completed.

Figure 4.66

4.9.2 System Upgrade

Your current firmware version will be displayed on your screen. You may go to the **Device Status→ Device Information** Page to check for the latest firmware versions available.

Click **Browse**, choose the correct bin file and then click **System upgrade**.
Don't shut down the power during upgrade. After upgrading, you can see the upgrade result.

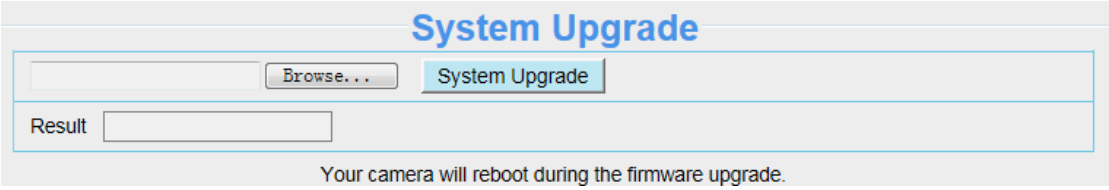


Figure 4.67

Upgrade Firmware by IP Camera Tool

Double click the IP Camera Tool shot icon , select the Camera IP that you want to upgrade the firmware. Then select Upgrade Firmware and enter the username and password, choose the firmware file, and upgrade.

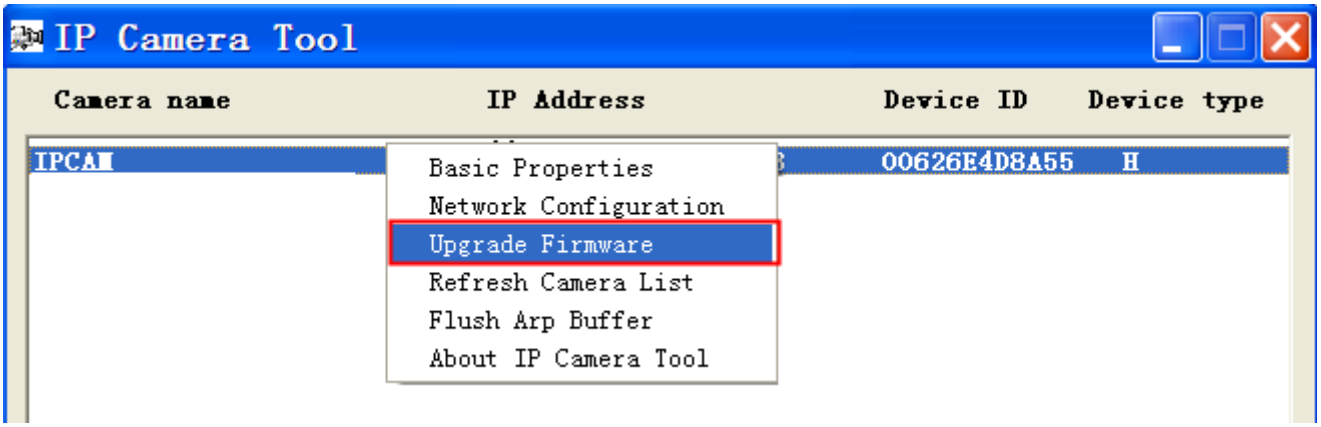


Figure 4.68

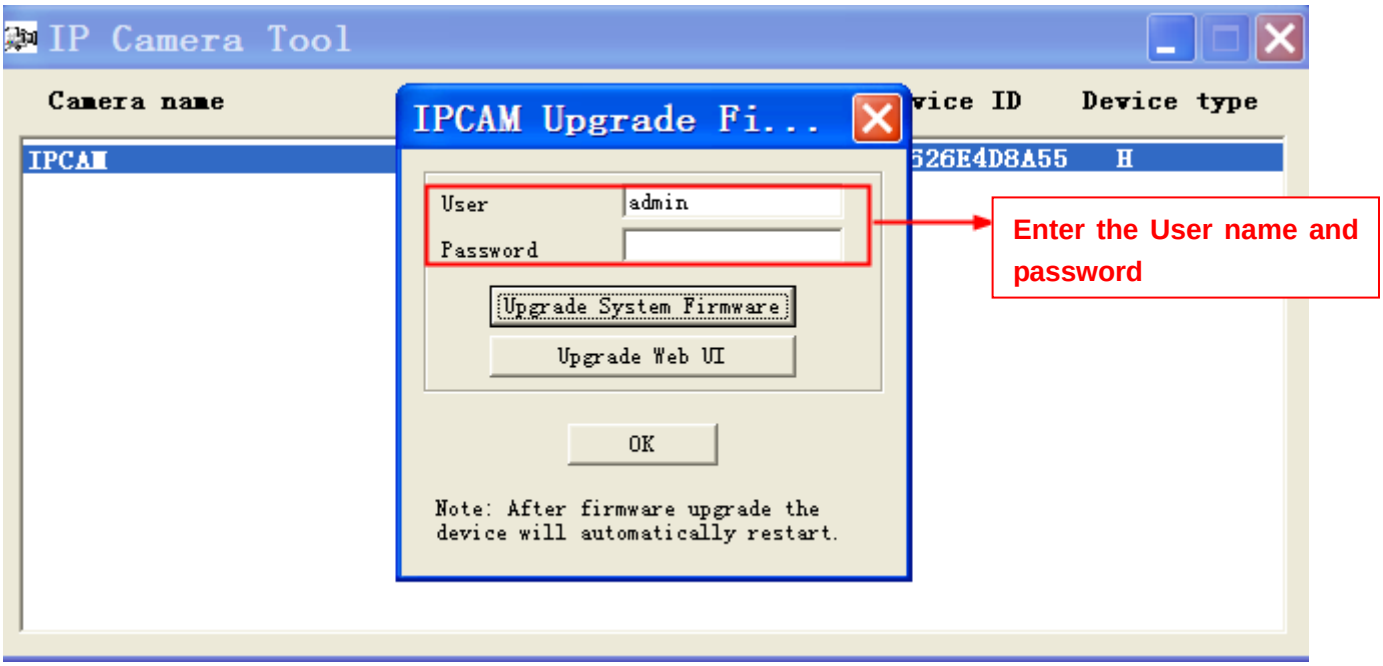


Figure 4.69

CAUTION: If your camera works well with the current firmware, we recommend not upgrading. Please don't upgrade the firmware unnecessarily. Your camera may be damaged if misconfigured during an upgrade.

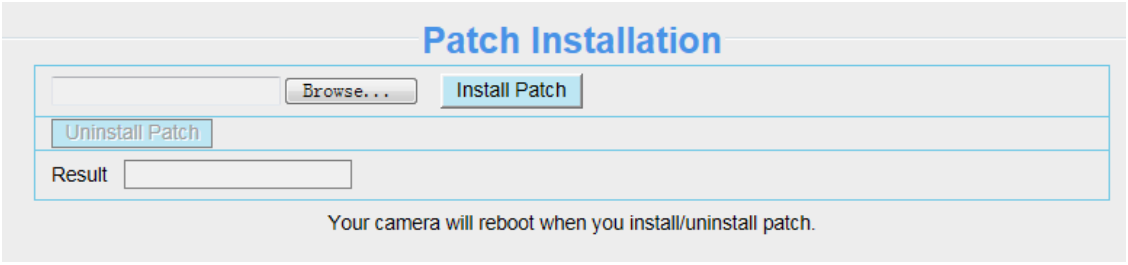
NOTE:

1) Before upgrading the firmware, please remove the SD card and reboot the camera, don't upgrade the firmware in WAN through the web UI, or else the upgrade process may fail.
2) Please ensure you have download the correct firmware package for your camera before upgrading. Read the upgrade documentation (readme.txt file) in the upgrade package before you upgrade.
3) Upon downloading the firmware check the sizes of the .bin files. They must match the size in the readme.txt file. If not, please download the firmware again until the sizes are the same. Your camera will not function correctly if a corrupt .bin file is used.
4) Normally, only Device WEB UI need to be upgrade, please do not try to upgrade the Device System Firmware.
5) Never shut down the power of the camera during upgrade until the IP camera restart and get connected.
6) After upgrade successfully, please uninstall the old plugin and re-install it, then reset the camera to the

default factory settings before using the camera.

4.9.3 Patch Installation

Click "Browse" to select the correct patch file, and then click "Install Patch" to install the patch. Do not turn off the power during it installing. After installing is complete, you will receive a system prompt.



4.9.4 Factory Reset

Select Factory Reset and all parameters will return to factory settings if selected. This is similar to press the Reset button on the bottom of the camera.

Figure 4.70

4.9.5 Reboot

Click Reboot System to reboot the camera. This is similar to unplugging the power to the camera.

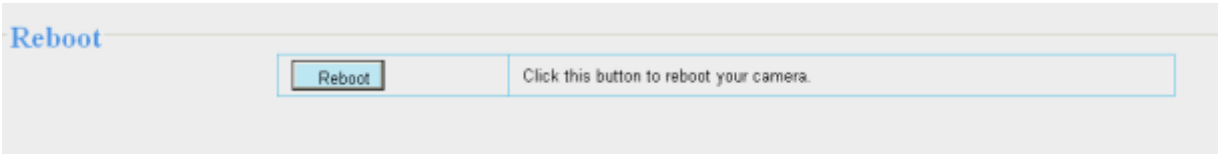
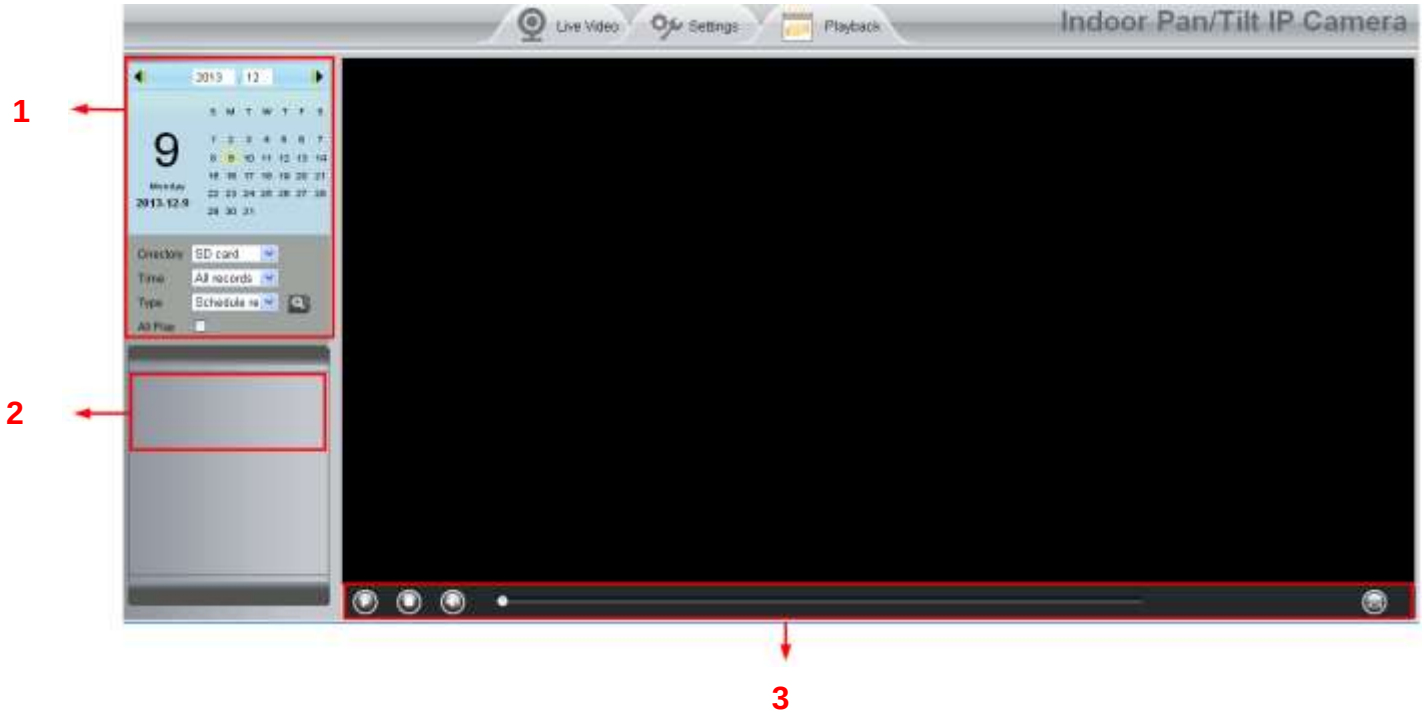


Figure 4.71

5 Playback

On this page you can view the record files stored in the SD card.



Section 1 Define the Record files time and Type

Directory SD card : The storage path of record files

Time All records: Here supports three types: current day, current month and All records. Another way, select the time on the time&date manually.

Type All records: The type of records files, Here supports two typs: Normal record, Alarm record and

All records.

: Click this button to search all files that satisfy the conditions you selected.

Section 2 Search record files

On this panel you can see all record files satisfy the conditions you set.

Section 3 Play/Stop/Audio/Full screen buttons

Please select one record file before use these buttons.

Click this button to play the record files

Click this button to stop the record files

Open or stop audio

Click this button to make full screen, and double click left mouse to exit full screen.

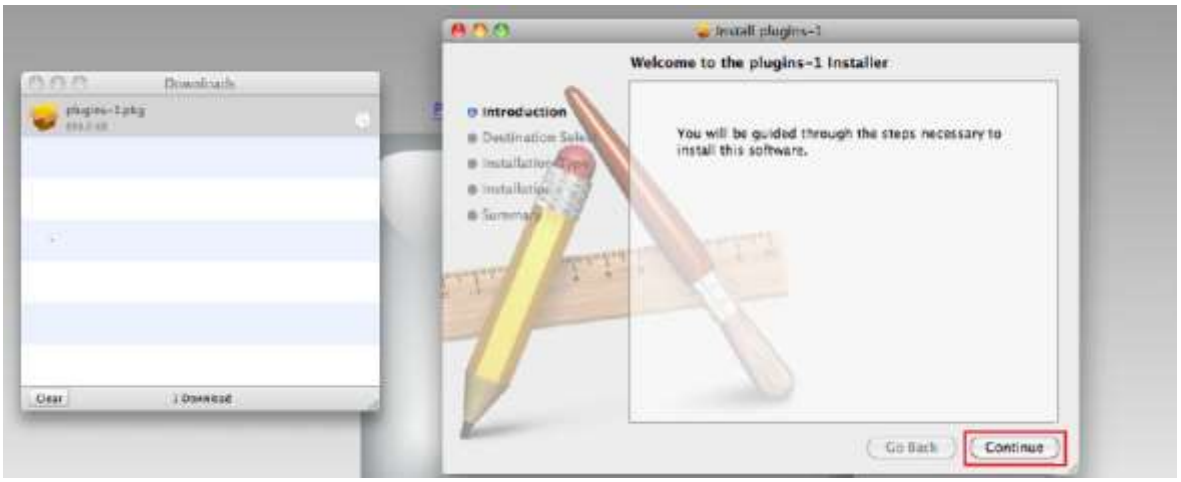
6 Appendix

6.1 Frequently Asked Questions

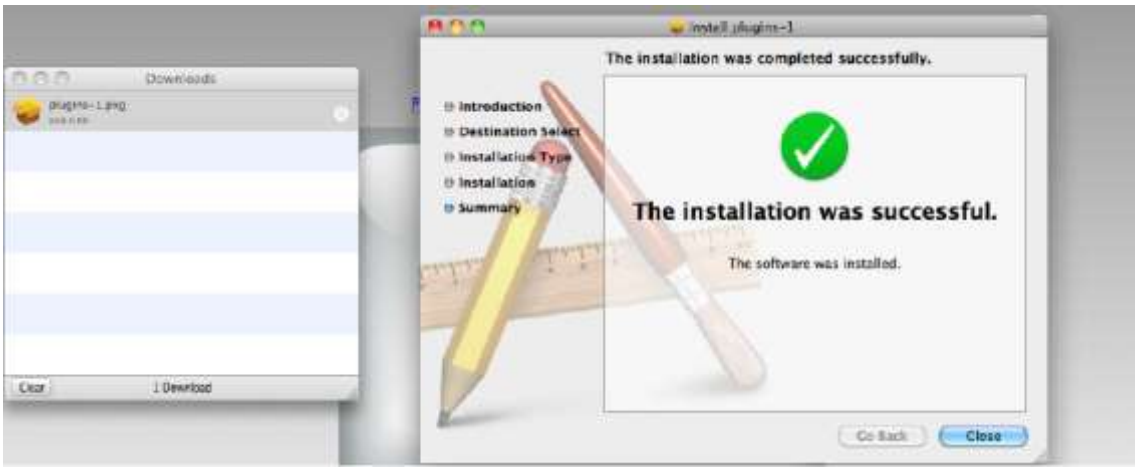
6.1.1 How to install the plug-in for Safari

1. Download the plug-in when you login your camera at the first time.

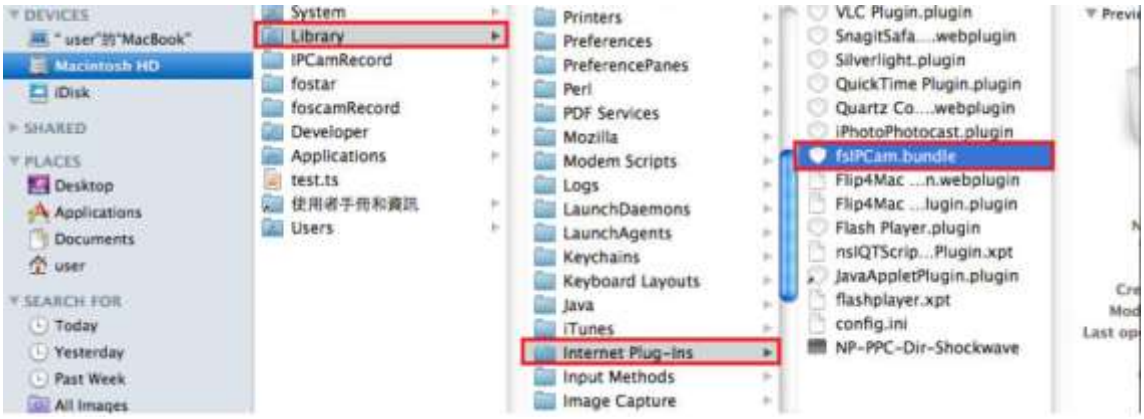
2. Double click the plug-in to install it.


Welcome to the plugins-1 Installer
Introduction
You will be guided through the steps necessary to install this software.
Go Back
Continue

3. Continue to finish the installation, and then it will be successful.



4. Please check if the plug-in was successfully installed or not.



5. Restart Safari to enable the plug-in.

6.1.2 How to download and install the ActiveX for Firefox users

For the first time login the camera, it may prompt you to download plugin.

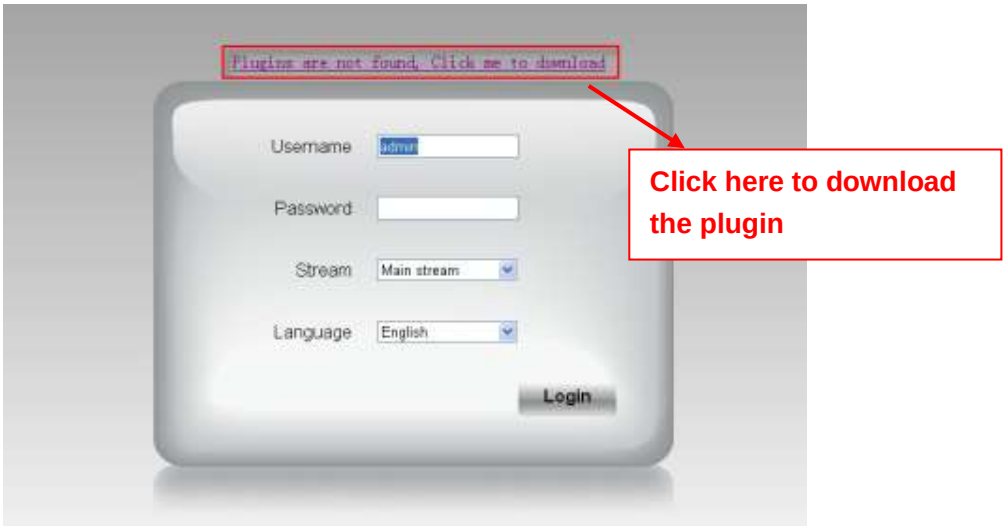


Figure 6.1

Drag the download file to Firefox web page and it will prompt you to Install it.

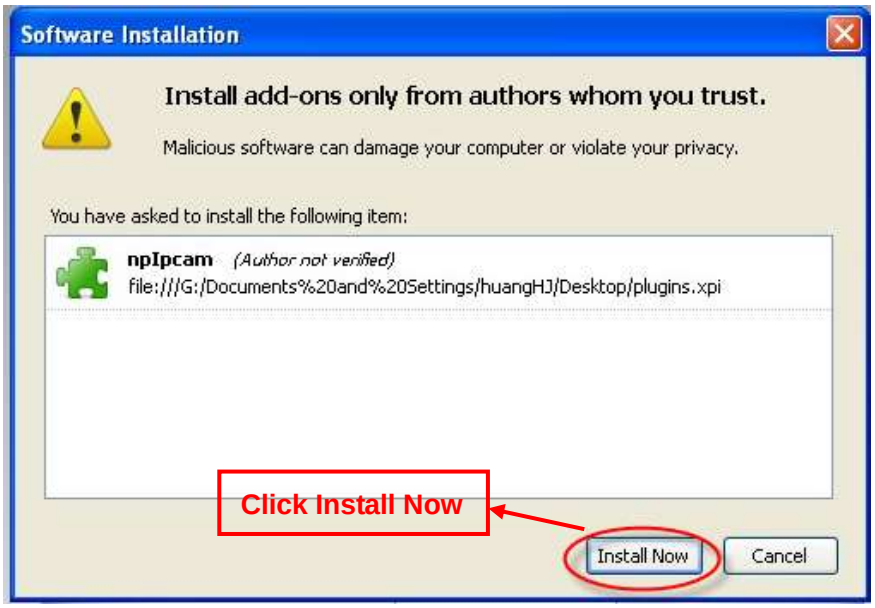

Software Installation
Install add-ons only from authors whom you trust.
Malicious software can damage your computer or violate your privacy.
You have asked to install the following item:
npIpcam (Author not verified)
file:///G:/Documents%20and%20Settings/huangHJ/Desktop/plugins.xpi
Click Install Now
Install Now
Cancel

Figure 6.2

Reboot the Firefox after the plugin installation is successfully completely, then relogin the camera again, you can see the surveillance window

NOTE: If you could not view living video after running the ActiveX, only a red cross in the center of the video or just a black screen. Please change another port number to try.

Make sure all firewall or antivirus software on your computer does not block the active download and installation. If you are unable to run the ActiveX control, try shutting down the firewall or antivirus program.

6.1.3 How to download and install the ActiveX for Google Chrome users

For the first time login the camera, it will prompt you to download the ActiveX.

Figure 6.3

Download the plugin and drag it to the Extensions page of Google Chrome.

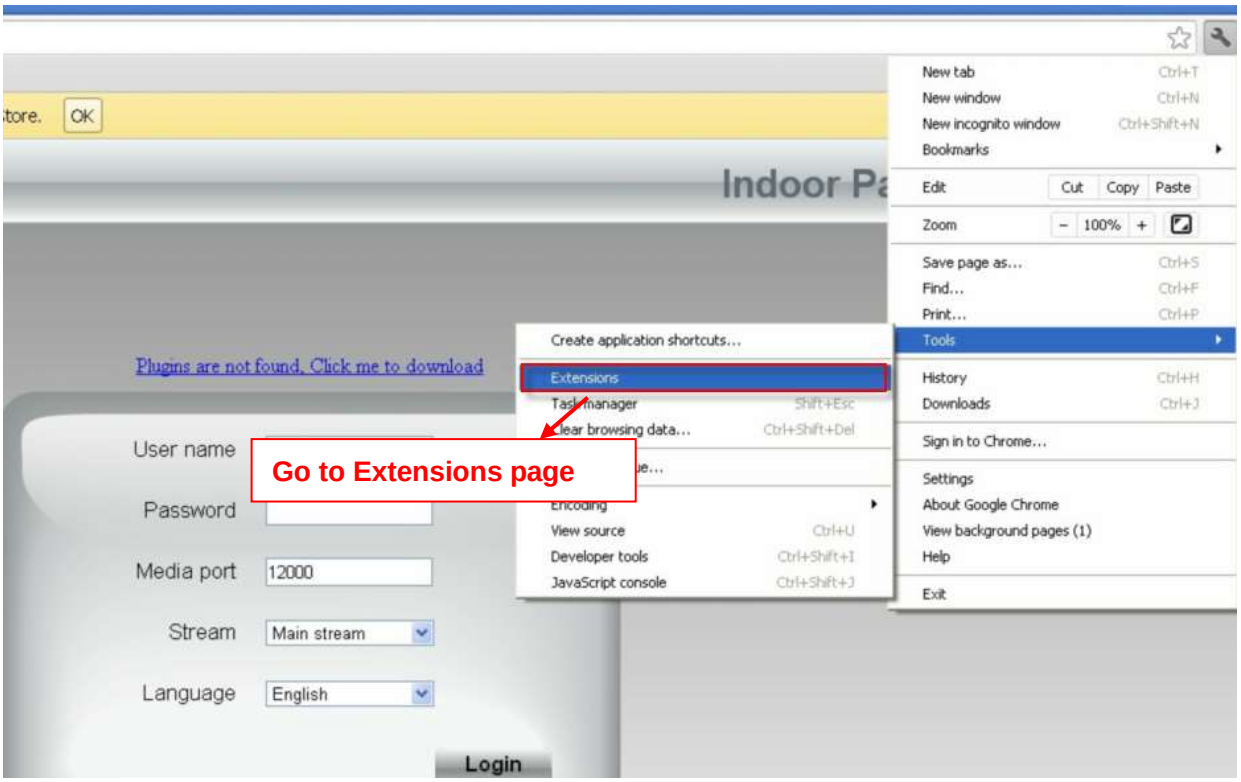


Figure 6.4

Click Add button to install the Plugins.

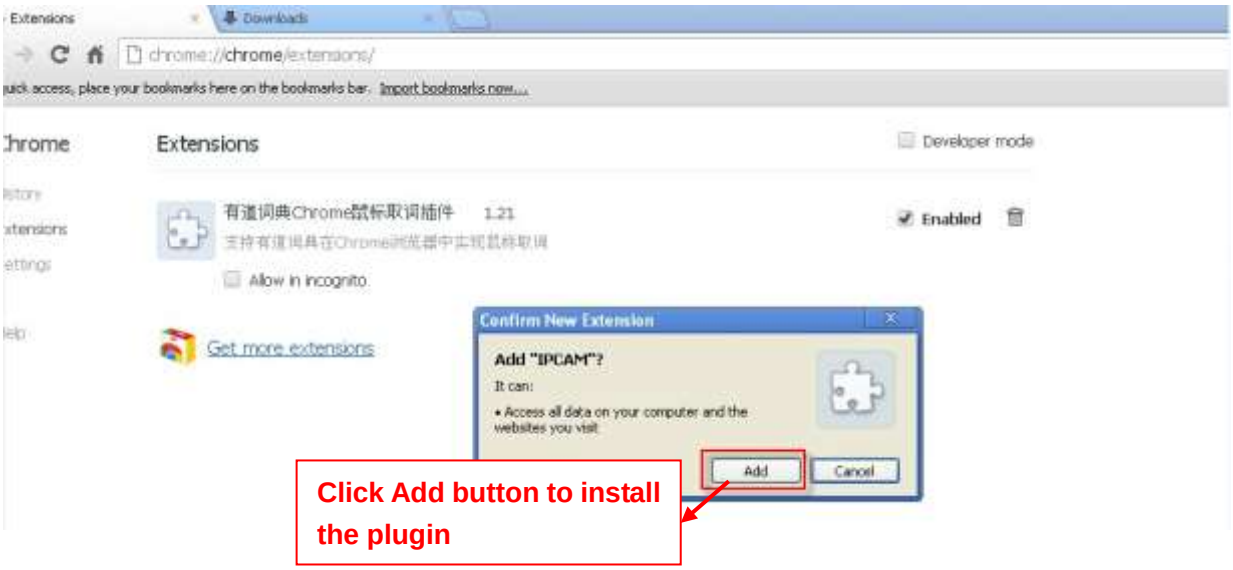


Figure 6.5

Reboot the browser and relogin the camera, you will see the surveillance window.

6.1.4 I have forgotten the administrator password

To reset the administrator username and password, press and hold down the RESET BUTTON for 5 seconds. Upon releasing the reset button, wait for 20 seconds, the camera will reboot and the username and password will return to the factory default administrator username and password. Please power on the camera before reset

Default administrator username: **admin**

Default administrator password: No password

6.1.5 Camera can not record in Internet Exploer

Camera can not record when I click Record button or I can't change the manually record path.

When you use Windows7 or Vista, you may be not able to do manually record or change the record path because of the security settings of computer.

There are two ways to resolve this problem:

(1) Please add the camera as a trusted site to resolve this issue. The steps are

IE browser→Tool→Internet Properties→Security→Trusted sites→Sites→Add

(2) Open IE browser, then right click, select "Run as administrator"

6.1.6 Subnet doesn't match

Check whether your ipcamera in the same subnet of your computer. The step is **Control Panel→Network Connections**→Dbclick **Local Area Connections** → Choose **General→Properties**.(Figure 3.23/3.24) Check

subnet mask, IP address and gateways. When you set IP address please make sure they are in the same subnet. Otherwise you can't access camera.

6.1.7 No Pictures Problems

The video streaming is transmitted by the ActiveX controller. If ActiveX controller isn't installed correctly you will see no video image. You can resolve this problem by this way:
Download ActiveX controller and set the safety property of IE in the PC when you view it first time: IE browser→Tool→Internet Proper→Security→Custom Level→ActiveX control and Plug-ins. Three options of front should be set to be "Enable", The ActiveX programs read by the computer will be stored. As follows:
Enable: Download unsigned ActiveX controls
Enable: Initialize and script ActiveX controls not marked as safe
Enable: Run ActiveX controls and plug-ins

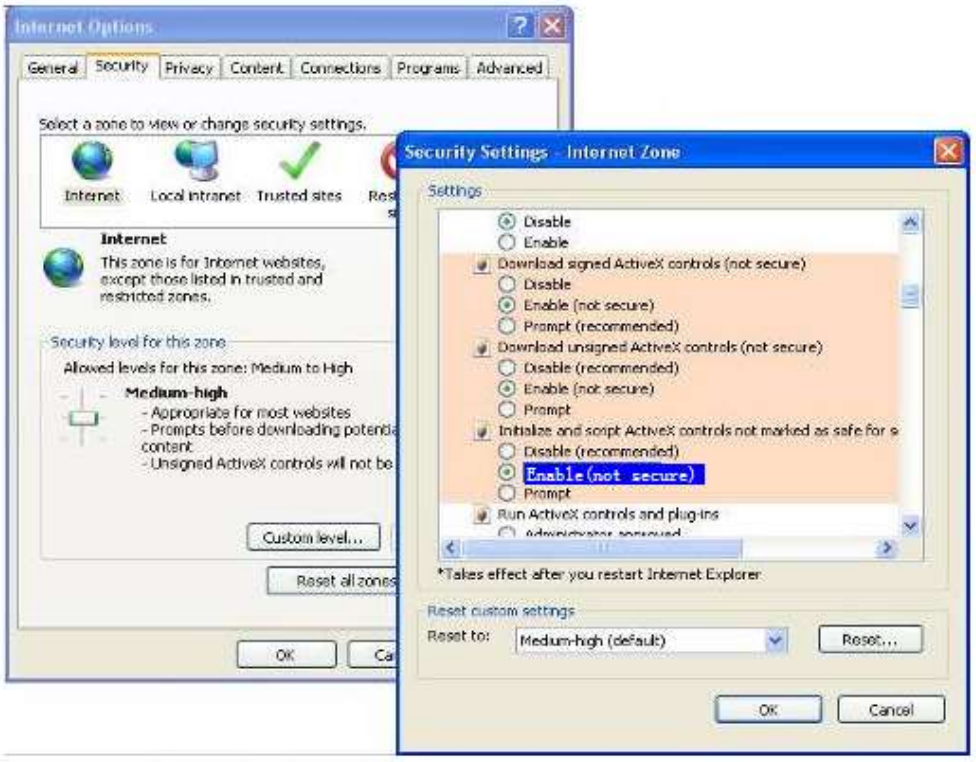


Figure 6.6

If you allow the ActiveX running, but still could not see living video. Please change another port number to try. Don't use port 88.

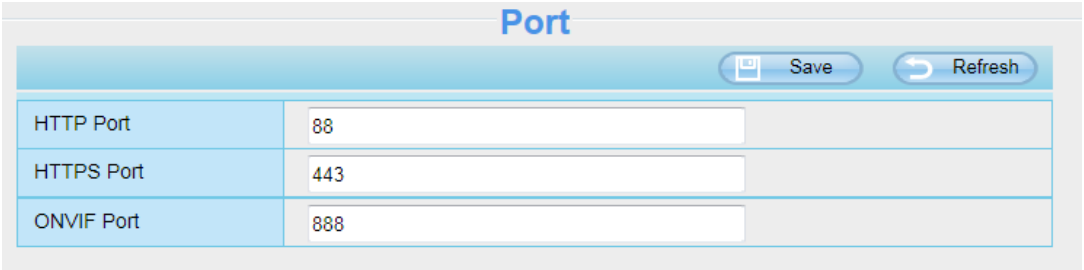


Figure6.7

NOTE:
Make sure that your firewall or anti-virus software does not block the camera or ActiveX. If you could not see video, please shut down firewall or anti-virus software to try again.

6.1.8 Can't access IP camera in internet

There are some reasons:
1、ActiveX controller is not installed correctly
2、The port which camera used is blocked by Firewall or Anti-virus software. Please change another port number and try again.
3、Port forwarding is not successful
Check these settings and make sure they are correct.

6.1.9 UPnP always failed

UPnP only contains port forwarding in our recent software. Sometimes, it may be failed to do port forwarding automatically because of firewall or anti-virus software. It also has much relation with router's security settings. So we recommend you do port forwarding manually. You can view your camera in internet successfully after you do port forwarding manually in your router.

6.1.10 Camera can not connect wireless

If your camera could not connect wireless after you set wireless settings and plug out the cable. Please check whether your settings are correct or not.
Normally, if the camera can't connect wireless it is due to an incorrect setting.
Make sure you are broadcasting your SSID; use the same encryption for router and camera.

6.1.11 Can't see other cameras listed

Can't see other cameras listed in multi-device when using remote access.
If you want to view all the cameras via the WAN, verify that each camera added in the multi-device settings can be accessed by using the DDNS name and port number. Use the DDNS domain name not the camera's LAN IP. (For more details see: How to add cameras in WAN)

6.2 Default Parameters

Default network Parameters
IP address: obtain dynamically
Subnet mask: obtain dynamically
Gateway: obtain dynamically
DDNS: Embedded domain name

Username and password
Default username is admin with a blank password.

6.3 Specifications

ITEMS		FC2401P
Image Sensor	Sensor	High Definition Color CMOS Sensor
	Display Resolution	1280 x 720 (1Megapixels)
	Min. Illumination	0 Lux (With IR Illuminator)
Lens	Lens Type	Glass Lens
	focal length	f:2.8mm
	Aperture	F2.4
	Angle of View	70°
Video	Image Compression	H.264
	Image Frame Rate	30fps maximum, downward adjustable
	Resolution	720P(1280 x 720), VGA(640 x 480), VGA(640 x 360), QVGA(320 x 240), QVGA(320 x 180)
	Stream	dual stream
	Image adjustment	The hue, brightness, contrast, saturation, sharpness are adjustable
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	Pan/Tilt Angle	Horizontal:300° & Vertical: 120°
	Night visibility	11pcs IR-LEDs, night vision range up to 8 meters
Audio	Input/Output	Supports two-way audio Built-in Mic & Speaker 3.5mm audio jack for external Mic & Speaker
	Audio Compression	PCM/G.726
Network	Ethernet	One 10/100Mbps RJ45 port
	Wireless Standard	IEEE802.11b/g/n
	Data Rate	IEEE802.11b: 11Mbps(Max.); IEEE802.11g: 54Mbps(Max.); IEEE802.11n: 150Mbps(Max.).
	Wireless Security	WEP, WPA, WPA2
	WPS	Supports WPS one button push wireless connection
	Network Protocol	IP、TCP、UDP、HTTP、HTTPS、SMTP、FTP、DHCP、DDNS、UPnP、RTSP、WPS、ONVIF
	Remote Access	P2P, DDNS
System Requirements	Operating System	Microsoft Windows XP, Vista, 7, 8; Mac OS iOS、Android
	Browser	Microsoft IE7 and above version or compatible browser; Mozilla Firefox; Google Chrome; Apple Safari.

Other Features	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	Privacy Zone	Set privacy zone manually
	User Accounts	Three levels user role
	Firewall	Supports IP Filtering
	Storage	Micro SD card and local storage
	Reset	Reset button is available
Power	Power Supply	DC 5V/2.0A
	Power Consumption	7.5 Watts (Max.)
Physical	Dimension(LxWxH)	110(L)*103(W)*127(H) mm
	Gross Weight	680g
	Net Weight	310g
Environment	Operating Temperature	-20° ~ 55°C (-4°F ~ 131°F)
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temperature	-20°C ~ 60° (-4°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
Certification	CE, FCC, RoHS	

Attention: Power adapter should be used between 0℃-40℃, and 5%-90% relative humidity.

6.4 CE & FCC

Electromagnetic Compatibility (EMC)

FCC Statement

This device compiles with FCC Rules Part 15. Operation is subject to the following two conditions.

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the installation manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is like to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

FCC Caution

Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.